

Analysis of Web API Integration in Iranian Public Libraries for Job Postings and Vacancy Management

Kamal Tiwari

Research Scholar, Department of Management., Jiwaji University, Gwalior, INDIA.



www.ijrah.com || Vol. 3 No. 2 (2023): March Issue

Date of Submission: 05-03-2023

Date of Acceptance: 23-03-2023

Date of Publication: 31-03-2023

ABSTRACT

Application Programming Interfaces (APIs) are software tools that help different programs work together. APIs can improve an organization's presence on the Web with tools that integrate various useful, popular programs. This study aimed to identify appropriate web-based APIs used by the most popular public library websites for presentation on Iranian public libraries' websites. For this purpose, we conducted this study in two stages: In stage one, Web APIs were identified by reviewing the websites of the top public libraries in the world. Then, in stage two, using the obtained results, important Web APIs were selected utilizing experts' opinions (the heuristic method). In stage one, the 30 Web APIs in two categories were identified: 10 public Web APIs and 20 private Web APIs. Then, in stage two, 7 public APIs and 17 private Web APIs for these websites were selected, based on expert analysis. The results of this study can be used to improve the design of public library websites and enhance the communication of such websites' presence on the Web.

Keywords- Public library, Website, Web APIs.

I. INTRODUCTION

An Application Programming Interface (API) is a manual programming tool to describe how an application accesses another function (Cerf, 2019). An API is considered a set of descriptive, clear techniques to create communication between different software components (Courage & Saroop, 2015), an expression first used in 1968 (Cotton & Greatorex Jr, 1968). The function of an API is to make it easier to use certain technologies to construct software for developers (Cerf, 2019). Just as a graphical user interface makes it easy for the user to use the software, an API serves the same purpose for software developers (Mahiddini, 2017).

One of the uses of APIs is developing websites, which is known as a web programming interface, or a Web API (Boyd, 2014). Web APIs allow us to combine multiple programming interfaces into new software; this technique is also known as Mashup. For example, programming interfaces have made it easier to share content and data between users and applications (Benslimane et al., 2008).

Institutions can be more effective in developing

their websites using Web APIs (Michel, 2013). The use of Web APIs on a library website allows for the expansion of web-based services, use of this information on a larger scale, and maintaining a competitive position compared to other information providers (Davis, 2016; Michel, 2013).

So far, many types of research have been suggested to study the use of widgets or APIs to increase the usability of library websites. In a 2008 study, Meier described the benefits of using chat widgets on library websites, and how they affect everyday work and organizational culture. Meier also found that web-based APIs and chat widgets can be powerful communication tools on websites and web-based interfaces, allowing for point-of-need contact with users (Meier, 2008).

In a 2011 study, Sharpe and Gallagher developed a web-based API for inter-library loans and loan copyright payments. They knew that the current method of submitting website requests required their web submission interface, which was time-consuming and placed a heavy burden on staff resources. For this reason, they developed a web-based application to automatically retrieve, validate, and submit requests using private APIs. As a result of developing this web-

based API, they were able to save nearly 500 hours a year on staff time (Sharpe & Gallagher, 2011).

A study by Johnston introduced and described the use of the OCLC WorldCat API. She described the result of using this API as "Finally, our holdings reflect what we actually own" (Johnston, 2015). In another study, Eaton built an interactive visualization of his institution's collections using the Primo API from Ex Libris. When a user enters a search term, a "bubble" visualization of its location in the collection appears, based on its Library of Congress classification number, year of creation, or subject heading. As a result, Eaton was able to utilize the collected data to develop a more visual approach to exploring library holdings (Eaton, 2017).

According to the literature review, Web APIs can enhance the quality of presentation and functionality of library websites by applying unique features. With these improvements in the quality of library websites, users will be more likely to use these website, and the websites will function more efficiently on the web. Therefore, the use of Web APIs for public library websites offers users a more user-friendly way to access information. However, despite the increasing number of global public libraries making their websites available to all on the World Wide Web, many websites cannot provide a comprehensive overview of the types of facilities, services, and resources that users need.

Iranian public library websites have been studied across many types of research. The results of much of this research have indicated that websites must progress both quantitatively and qualitatively (Nazari & Bigdeli, 2014; Saeidnia, 2019). In Iran, public libraries now recognize the necessity and importance of their websites. However, many of these libraries are still in their infancy, and the websites of such libraries often have various defects and issues (Saeidnia, 2019). Thus, many Iranian public library websites have not yet started using Web APIs. Web APIs, which have been used for many years on most library websites across the world, have strengthened the presence of libraries on the web and greatly increased the availability of library services (Michel, 2013). Therefore, this study aimed to identify Web APIs used in top public libraries of the world and present these Web APIs for use on Iranian public libraries' websites. These APIs would improve the performance and presence of Iranian public library websites.

II. METHODS

This is an analytical-descriptive study conducted in two stages in 2021 using the heuristic method.

1. Stage One

In this stage, we reviewed the websites of public libraries to obtain the Web APIs used in the world's public libraries. For this purpose, we used lists of

public libraries available in the European Bureau of Library, Information and Documentation Associations (EBLIDA, 2020) and the Public Library Association (PLA, 2020). Within these two lists, small libraries (e.g., libraries in which you can take a book and leave a book) were ignored. We considered input criteria to be well-designed public websites. Inclusion criteria were: desirable regional site rank, at least two public and one private Web API, at least 100 daily visitors, and up-to-date website information and content.

2. Stage Two

In this stage, we passed the list of the obtained Web APIs to five experts (Table 1), who were asked to score each Web API from 1 to 5, based on the Likert scale (1 = strongly disagree, 5 = strongly agree), for each Web API that is suitable for Iranian library websites. If any of the identified Web APIs had a mean score above 2.5, it was deemed a suitable and compatible Web API for Iranian library websites. Finally, we analyzed the data using IBM SPSS statistical software (version 19, Armonk, USA).

Table 1: Experts' API characteristic ratings

	Expert 1 (pilot)	Expert 2	Expert 3	Expert 4	Expert 5
Sex	Male	Female	Female	Female	Male
Age	28	27	31	42	48
Education	MSc in Engineering (Information Management)	MSc in Engineering (Information Technology)	MSc in (library and information science)	PhD in (library and information science)	PhD in (library and information science)
Profession	Website developer	Website developer	PhD fellow	Assistant professor	Assistant professor

III. RESULTS

1. General Specifications

In the first stage of this study, each of the Web APIs (public and private) were identified for the public library websites. For this purpose, 221 public library websites were checked, and after excluding 103 small public libraries, the remaining 118 public library websites were selected. After applying the inclusion criteria, 105 public library websites were removed, and 13 public library websites were included in the final study (Table 2). The PRISMA diagram shows the steps of the public library website selection (Figure 1).

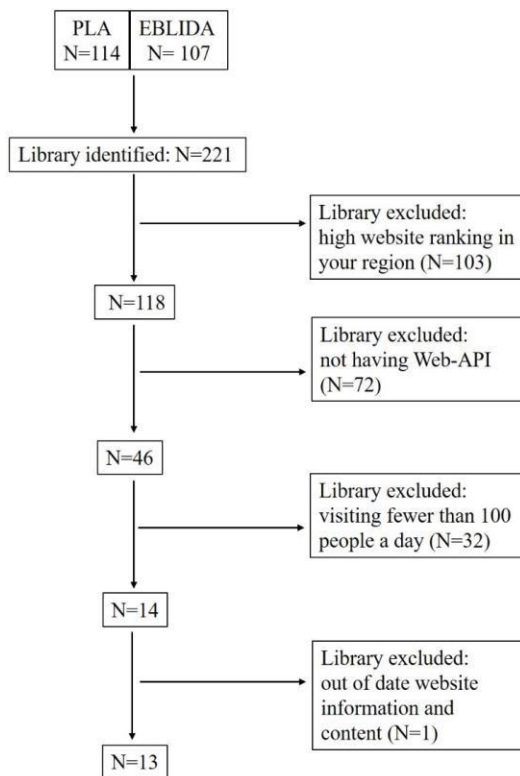


Figure 1 PRISMA diagram represents the processing and selection of public library websites

Table 2: List of public library websites analyzed

No.	Title Library	Web-APIs Public	Web-APIs Private	URL Public library
1	Helsinki City Library	Facebook, Twitter, Email	E-services, Services on map, Citizen safety information, Journey Planner	https://www.hel.fi/helsinki/en
2	Los Angeles	Facebook, Instagram, YouTube, Twitter, Snapchat	Books & E-Media Education & Research, Goodreads	https://www.lapl.org/
3	Multnomah County	Twitter, Facebook, Google Plus, Tumblr, YouTube	RSS, Mobile app	https://multcolib.org/

		e, Flickr, Pinterest, Instagram, Email		
4	Louis County	Facebook, Instagram, YouTube, Twitter	E-Media, E-Courses, Mobile App	http://slcl.org
5	Salt Lake City	Twitter, Facebook, YouTube, Pinterest, Instagram	Library App, virtual meeting	https://www.slclpl.org/
6	Carnegie Library	Facebook, Twitter, Instagram, YouTube, LinkedIn	Stream and Download	https://www.carnegielibrary.org/
7	Topeka and Shawnee County	Facebook, Instagram, YouTube, Twitter, Flickr	Learning resources, Digital Library, Goodreads	https://tscpl.org/
8	Cleveland	Twitter, Facebook, Instagram, Pinterest, YouTube, LinkedIn	E-Books, Audiobooks, Magazine, Newspapers, Movies, TV Shows,	https://cpl.org/
9	Scottsdale	Facebook, Instagram, YouTube, Twitter.	Online Tutorials, Goodreads, E-Newsletters	https://www.scottsdalelibrary.org

10	Iowa City	Facebook, Twitter, Instagram, YouTube	Podcasts, Donate, Digital Library	https://www.icpl.org/
11	Spearwood	Facebook, Instagram, Twitter, YouTube	E-Books, E-Audiobooks, E-Magazines, and streaming movies, E-Newsletter	http://library.cockburn.wa.gov.au
12	Lawrence	Twitter, Facebook, Tumblr, YouTube, Flickr, Pinterest, Instagram	virtual meeting, Digital Titles	https://lplks.org/
13	Birmingham	Facebook, YouTube, Twitter	language learning system, text messaging service, Sellers Club video streaming platform	http://www.bplonline.org

2. Sort and Points

A set of Web APIs for public library websites were identified in two categories: public Web APIs (10 items) and private Web APIs (20 items) (Tables 3 and 4).

In the second stage of this study, the identified Web APIs were scored by experts. In the public Web API category, social networks, Instagram, and email service received full points (Table 3). In the private category, online tutorials, e-media, and the social network “Goodreads” also received full points (Table 4).

Table 3 List of public Web APIs

Web-APIs Public	Ex.1	Ex.2	Ex.3	Ex.4	Ex.5	Mean	Status
Instagram	5	5	5	5	5	5	<input type="checkbox"/>
Email	5	5	5	5	5	5	<input type="checkbox"/>
Linkedin	4	4	5	5	5	4.6	<input type="checkbox"/>
Twitter	4	4	4	5	5	4.4	<input type="checkbox"/>

Facebook	4	4	4	5	4	4.2	<input type="checkbox"/>
YouTube	5	5	4	4	4	3.8	<input type="checkbox"/>
Google Plus	4	3	4	4	3	3.6	<input type="checkbox"/>
Pinterest	3	1	3	2	3	2.4	*
Flickr	3	3	2	1	2	2.2	*
Tumblr	3	3	2	2	1	2.2	*

= Selected Items; * = Removed Items

Table 4 List of private Web APIs

Web-APIs Private	Ex.1	Ex.2	Ex.3	Ex.4	Ex.5	Mean	Status
Online Tutorials	5	5	5	5	5	5	<input type="checkbox"/>
E-Media (i.e. eBooks, Audiobooks, Podcasts, Music, Movies)	5	5	5	5	5	5	<input type="checkbox"/>
Goodreads	5	5	5	5	5	5	<input type="checkbox"/>
Virtual meeting	5	4	5	5	5	4.8	<input type="checkbox"/>
RSS	5	4	5	5	5	4.8	<input type="checkbox"/>
E-Courses	4	5	5	5	4	4.6	<input type="checkbox"/>
Services on map	4	4	4	5	5	4.4	<input type="checkbox"/>
Citizen safety information	4	5	4	4	4	4.2	<input type="checkbox"/>
Journey Planner	4	4	4	4	4	4	<input type="checkbox"/>
Education & Research	4	4	3	4	5	4	<input type="checkbox"/>
Mobile app	3	3	4	5	5	4	<input type="checkbox"/>
Stream and Download	3	3	4	4	4	3.6	<input type="checkbox"/>
Learning resources	3	3	4	3	4	3.4	<input type="checkbox"/>
Digital Library	4	3	3	3	4	3.4	<input type="checkbox"/>
Newspapers	3	3	3	3	4	3.2	<input type="checkbox"/>
TV Shows	4	3	3	4	3	3.2	<input type="checkbox"/>
E-Newsletters	3	2	3	3	4	3	<input type="checkbox"/>
Donate	2	2	3	3	2	2.4	*
Text messaging service	2	2	2	2	3	2.2	*
Sellers Club	2	1	2	2	3	2	*

= Selected Items; * = Removed Items

IV. DISCUSSION

This study aimed to identify Web APIs that could be useful for Iranian public library websites. From the public Web APIs category of 10 identified cases, the experts selected seven. Instagram and LinkedIn achieved perfect scores, a result highlighting the importance of using social networks on public library websites. Maness (2006) described the use of social networks on library websites as a promising and pleasant feature. He considers messaging, blogging, streaming media, and tagging capabilities as some of the most important features of social networks that can also be very effective in enhancing the services of library websites. Furthermore, the use of social network web APIs will increase libraries’ capabilities to view, and share their

resources, and events (Michel, 2013).

From the private Web APIs category of 20 identified cases, the experts selected 17. In this category, online courses earned the highest (and full) score. This feature is very popular, as more than half of the graduates in the last decade have taken and passed at least one online course (Halpern & Tucker, 2014). Accordingly, the use of Web APIs in this area can greatly increase the number of learners accessing library websites (Hartog, 2018).

Another private Web API that achieved the full score from the experts was web media. Generally, web media can be defined as text, audio, and visual communication that may be presented on the web (MDN, 2020). The use of web media features using existing APIs (e.g. Media Capabilities, Media Capture and Streams, Web Audio, etc.) will increase the number of users of library websites (Maness, 2006; MDN, 2020). Among private Web APIs, the Goodreads social network also achieved the highest score. Goodreads is a dedicated social network for book readers, and its API is available for various uses from the developer's website (Goodreads, 2020). Library website users can use the Goodreads Web API to easily access this social network, through which they can interact, share and recommend library resources (Michel, 2013).

Most of the items in the private Web APIs category scored 2.5 points or more from the experts, with the exception of Donate, Text messaging services, and Sellers Club. Since a private Web API is an API that has its application hosted by in-house developers (Maleshkova et al., 2010), its development can depend on the policy and type of activity of the public library's website.

V. CONCLUSION

According to the findings of this study, Web APIs can help public library websites to enhance the offer of their features, to increase the website's activity, and to strengthen the library's presence online. These results can be considered by managers and officials of public libraries' websites, and can be used to improve the design and communication of such websites.

Conflict of Interests

The authors declare to have no conflicts of interest with the manuscript.

REFERENCES

[1] Benslimane, D., Dustdar, S., & Sheth, A. (2008). Services mashups: The new generation of web applications. *IEEE Internet Computing*, 12(5), 13-15.
 [2] Cerf, V.G. (2019). APIs, standards, and enabling infrastructure. *Communications of the ACM*.
 [3] Cotton, I.W., & Greatorex Jr, F.S. (1968). Data structures and techniques for remote computer graphics.

In Proceedings of the December 9-11, 1968, fall joint computer conference, part I, 533-544.

[4] Davis, R.C. (2016). APIs and Libraries. *Behavioral & Social Sciences Librarian*, 35(4), 192-195.

[5] Eaton, M. (2017). Seeing Library Data: A Prototype Data Visualization Application for Librarians. *Journal of Web Librarianship*, 11(1), 69-78. <https://doi.org/10.1080/19322909.2016.1239236>

[6] EBLIDA. (2020). *EBLIDA Members*. 5 November 2020. <http://www.eblida.org/membership/eblida-members.html>

[7] Prathyusha Nama, Purushotham Reddy, & Guru Prasad Selvarajan. (2023). Intelligent Data Replication Strategies: Using AI to Enhance Fault Tolerance and Performance in Multi-Node Database Systems. *Well Testing Journal*, 32, 110-122. Retrieved from <https://welltestingjournal.com/index.php/WT/article/view/111>

[8] Nama, P., Reddy, P., & Selvarajan, G. P. (2023). Intelligent data replication strategies: Using AI to enhance fault tolerance and performance in multi-node database systems. *Well Testing Journal*, 32, 110-122. Retrieved from <https://welltestingjournal.com/index.php/WT/article/view/111>

[9] Nama, P., Pattanayak, S., & Meka, H. S. (2023). AI-driven innovations in cloud computing: Transforming scalability, resource management, and predictive analytics in distributed systems. *International Research Journal of Modernization in Engineering Technology and Science*, 5(12), 4165. <https://doi.org/10.56726/IRJMETS47900>

[10] Nama, P., Reddy, P., & Selvarajan, G. P. (2023). Leveraging generative AI for automated test case generation: A framework for enhanced coverage and defect detection. *Well Testing Journal*, 32(2), 74-91. Retrieved from <https://welltestingjournal.com/index.php/WT/article/view/110>

[11] Cherukuri, H., Singh, S. P., & Vashishtha, S. (2020). Proactive issue resolution with advanced analytics in financial services. *The International Journal of Engineering Research*, 7(8), a1-a13. <https://tjjer.org/tijer/viewpaperforall.php?paper=TJER2008001>

[12] Cherukuri, H., Goel, E. L., & Kushwaha, G. S. (2021). Monetizing financial data analytics: Best practice. *International Journal of Computer Science and Publication (IJCS Pub)*, 11(1), 76-87.

[13] Chaturvedi, R., Sharma, S., & Narne, S. (2023). Advanced Big Data Mining Techniques for Early Detection of Heart Attacks in Clinical Data. *Journal for Research in Applied Sciences and Biotechnology*, 2(3), 305-316. <https://doi.org/10.55544/jrasb.2.3.38>

[14] Chaturvedi, R., Sharma, S., & Narne, S. (2023). Advanced Big Data Mining Techniques for Early Detection of Heart Attacks in Clinical Data. *Journal for*

- Research in Applied Sciences and Biotechnology, 2(3), 305–316. <https://doi.org/10.55544/jrasb.2.3.38>
- [15] Chaturvedi, R., Sharma, S., & Narne, S. (2023). Harnessing Data Mining for Early Detection and Prognosis of Cancer: Techniques and Challenges. *Journal for Research in Applied Sciences and Biotechnology*, 2(1), 282–293. <https://doi.org/10.55544/jrasb.2.1.42>
- [16] Mehra, A. (2023). Strategies for scaling EdTech startups in emerging markets. *International Journal of Communication Networks and Information Security*, 15(1), 259-274. Available online at <https://ijcnis.org>
- [17] Mehra, A. (2021). The impact of public-private partnerships on global educational platforms. *Journal of Informatics Education and Research*, 1(3), 9-28. Retrieved from <http://jier.org>
- [18] Ankur Mehra. (2019). Driving Growth in the Creator Economy through Strategic Content Partnerships. *International Journal for Research Publication and Seminar*, 10(2), 118–135. <https://doi.org/10.36676/jrps.v10.i2.1519>
- [19] Ankur Mehra. (2023). Web3 and EdTech startups' Market Expansion in APAC. *International Journal of Research Radicals in Multidisciplinary Fields*, ISSN: 2960-043X, 2(2), 94–118. Retrieved from <https://www.researchradicals.com/index.php/rr/article/view/117>
- [20] Mehra, A. (2023). Leveraging Data-Driven Insights to Enhance Market Share in the Media Industry. *Journal for Research in Applied Sciences and Biotechnology*, 2(3), 291–304. <https://doi.org/10.55544/jrasb.2.3.37>
- [21] Ankur Mehra. (2022). Effective Team Management Strategies in Global Organizations. *Universal Research Reports*, 9(4), 409–425. <https://doi.org/10.36676/urr.v9.i4.1363>
- [22] Mehra, A. (2023). Innovation in brand collaborations for digital media platforms. *IJFANS: International Journal of Food and Nutritional Sciences*, 12(6), 231–250.
- [23] Ankur Mehra. (2022). The Role of Strategic Alliances in the Growth of the Creator Economy. *European Economic Letters (EEL)*, 12(1). Retrieved from <https://www.eelet.org.uk/index.php/journal/article/view/1925>
- [24] Swethasri Kavuri. (2022). Optimizing Data Refresh Mechanisms for Large-Scale Data Warehouses. *International Journal of Communication Networks and Information Security (IJCNIS)*, 14(2), 285–305. Retrieved from <https://www.ijcnis.org/index.php/ijcnis/article/view/7413>
- [25] Swethasri Kavuri, Suman Narne, " Implementing Effective SLO Monitoring in High-Volume Data Processing Systems, *International Journal of Scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT)*, ISSN : 2456-3307, Volume 6, Issue 2, pp.558-578, March-April-2020. Available at doi : <https://doi.org/10.32628/CSEIT206479>
- [26] Swethasri Kavuri, Suman Narne, " Improving Performance of Data Extracts Using Window-Based Refresh Strategies, *International Journal of Scientific Research in Science, Engineering and Technology(IJSRSET)*, Print ISSN : 2395-1990, Online ISSN : 2394-4099, Volume 8, Issue 5, pp.359-377, September-October-2021. Available at doi : <https://doi.org/10.32628/IJSRSET2310631>
- [27] Swethasri Kavuri, " Automation in Distributed Shared Memory Testing for Multi-Processor Systems, *International Journal of Scientific Research in Science, Engineering and Technology(IJSRSET)*, Print ISSN : 2395-1990, Online ISSN : 2394-4099, Volume 6, Issue 3, pp.508-521, May-June-2019. Available at doi : <https://doi.org/10.32628/IJSRSET12411594>
- [28] Swethasri Kavuri, " Advanced Debugging Techniques for Multi-Processor Communication in 5G Systems, *International Journal of Scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT)*, ISSN : 2456-3307, Volume 9, Issue 5, pp.360-384, September-October-2023. Available at doi : <https://doi.org/10.32628/CSEIT239071>
- [29] Shivarudra, A. (2021). Enhancing automation testing strategies for core banking applications. *International Journal of All Research Education and Scientific Methods (IJARESM)*, 9(12), 1. Available online at <http://www.ijaresm.com>
- [30] Ashwini Shivarudra. (2023). Best Practices for Testing Payment Systems: A Focus on SWIFT, SEPA, and FED ISO Formats. *International Journal of Communication Networks and Information Security (IJCNIS)*, 15(3), 330–344. Retrieved from <https://www.ijcnis.org/index.php/ijcnis/article/view/7519>
- [31] Shivarudra, A. (2019). Leveraging TOSCA and Selenium for efficient test automation in financial services. *International Journal of All Research Education and Scientific Methods (IJARESM)*, 7(10), 56–64.
- [32] Shivarudra, A. (2021). The Role of Automation in Reducing Testing Time for Banking Systems. *Integrated Journal for Research in Arts and Humanities*, 1(1), 83–89. <https://doi.org/10.55544/ijrah.1.1.12>
- [33] Ashwini Shivarudra. (2022). Advanced Techniques in End-to-End Testing of Core Banking Solutions. *International Journal of Research Radicals in Multidisciplinary Fields*, ISSN: 2960-043X, 1(2), 112–124. Retrieved from <https://www.researchradicals.com/index.php/rr/article/view/121>
- [34] Shivarudra, A. (2022). Implementing Agile Testing Methodologies in Banking Software Project. *Journal for Research in Applied Sciences and Biotechnology*, 1(4), 215–225. <https://doi.org/10.55544/jrasb.1.4.32>
- [35] Bhatt, S. (2021). Optimizing SAP Migration Strategies to AWS: Best Practices and Lessons Learned. *Integrated Journal for Research in Arts and*

- Humanities, 1(1), 74–82.
<https://doi.org/10.55544/ijrah.1.1.11>
- [36] Bhatt, S. (2022). Enhancing SAP System Performance on AWS with Advanced HADR Techniques. *Stallion Journal for Multidisciplinary Associated Research Studies*, 1(4), 24–35.
<https://doi.org/10.55544/sjmars.1.4.6>
- [37] Bhatt, S., & Narne, S. (2023). Streamlining OS/DB Migrations for SAP Environments: A Comparative Analysis of Tools and Methods. *Stallion Journal for Multidisciplinary Associated Research Studies*, 2(4), 14–27. <https://doi.org/10.55544/sjmars.2.4.3>
- [38] Bhatt, S. (2023). Implementing SAP S/4HANA on AWS: Challenges and solutions for large enterprises. *International Journal of Computer Science and Mobile Computing*, 12(10), 71–88.
- [39] <https://doi.org/10.47760/ijcsmc.2023.v12i10.007>
- [40] Sachin Bhatt , " Innovations in SAP Landscape Optimization Using Cloud-Based Architectures, *International Journal of Scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT)*, ISSN : 2456-3307, Volume 6, Issue 2, pp.579-590, March-April-2020.
- [41] Bhatt, S. (2022). Leveraging AWS tools for high availability and disaster recovery in SAP applications. *International Journal of Scientific Research in Science, Engineering and Technology*, 9(2), 482–496.
<https://doi.org/10.32628/IJSRSET2072122>
- [42] Bhatt, S. (2021). A comprehensive guide to SAP data center migrations: Techniques and case studies. *International Journal of Scientific Research in Science, Engineering and Technology*, 8(5), 346–358.
<https://doi.org/10.32628/IJSRSET2310630>
- [43] Bhatt, S. (2023). Integrating Non-SAP Systems with SAP Environments on AWS: Strategies for Seamless Operations. *Journal for Research in Applied Sciences and Biotechnology*, 2(6), 292–305.
<https://doi.org/10.55544/jrasb.2.6.41>
- [44] Paulraj, B. (2023). Enhancing Data Engineering Frameworks for Scalable Real-Time Marketing Solutions. *Integrated Journal for Research in Arts and Humanities*, 3(5), 309–315.
<https://doi.org/10.55544/ijrah.3.5.34>
- [45] Paulraj, B. (2023). Optimizing telemetry data processing pipelines for large-scale gaming platforms. *International Journal of Scientific Research in Science, Engineering and Technology*, 9(1), 401.
<https://doi.org/10.32628/IJSRSET23103132>
- [46] Paulraj, B. (2022). Building Resilient Data Ingestion Pipelines for Third-Party Vendor Data Integration. *Journal for Research in Applied Sciences and Biotechnology*, 1(1), 97–104.
<https://doi.org/10.55544/jrasb.1.1.14>
- [47] Paulraj, B. (2022). The Role of Data Engineering in Facilitating Ps5 Launch Success: A Case Study. *International Journal on Recent and Innovation Trends in Computing and Communication*, 10(11), 219–225. <https://doi.org/10.17762/ijritcc.v10i11.11145>
- [48] Balachandar Paulraj. (2021). Implementing Feature and Metric Stores for Machine Learning Models in the Gaming Industry. *European Economic Letters (EEL)*, 11(1). Retrieved from <https://www.eelet.org.uk/index.php/journal/article/view/1924>
- [49] Balachandar Paulraj. (2023). Data-Driven Decision Making in Gaming Platforms: Metrics and Strategies. *International Journal of Research Radicals in Multidisciplinary Fields*, ISSN: 2960-043X, 2(2), 81–93. Retrieved from <https://www.researchradicals.com/index.php/rr/article/view/116>
- [50] Alok Gupta. (2021). Reducing Bias in Predictive Models Serving Analytics Users: Novel Approaches and their Implications. *International Journal on Recent and Innovation Trends in Computing and Communication*, 9(11), 23–30. Retrieved from <https://ijritcc.org/index.php/ijritcc/article/view/11108>
- [51] Gupta, A., Selvaraj, P., Singh, R. K., Vaidya, H., & Nayani, A. R. (2022). The Role of Managed ETL Platforms in Reducing Data Integration Time and Improving User Satisfaction. *Journal for Research in Applied Sciences and Biotechnology*, 1(1), 83–92. <https://doi.org/10.55544/jrasb.1.1.12>
- [52] Selvaraj, P. . (2022). Library Management System Integrating Servlets and Applets Using SQL Library Management System Integrating Servlets and Applets Using SQL database. *International Journal on Recent and Innovation Trends in Computing and Communication*, 10(4), 82–89.
<https://doi.org/10.17762/ijritcc.v10i4.11109>
- [53] Vaidya, H., Nayani, A. R., Gupta, A., Selvaraj, P., & Singh, R. K. (2020). Effectiveness and future trends of cloud computing platforms. *Tuijin Jishu/Journal of Propulsion Technology*, 41(3). <https://doi.org/10.52783/tjpt.v45.i03.7820>
- [54] Harsh Vaidya, Aravind Reddy Nayani, Alok Gupta, Prassanna Selvaraj, & Ravi Kumar Singh. (2023). Using OOP Concepts for the Development of a Web-Based Online Bookstore System with a Real-Time Database. *International Journal for Research Publication and Seminar*, 14(5), 253–274.
<https://doi.org/10.36676/jrps.v14.i5.1502>
- [55] Aravind Reddy Nayani, Alok Gupta, Prassanna Selvaraj, Ravi Kumar Singh, & Harsh Vaidya. (2019). Search and Recommendation Procedure with the Help of Artificial Intelligence. *International Journal for Research Publication and Seminar*, 10(4), 148–166.
<https://doi.org/10.36676/jrps.v10.i4.1503>
- [56] Aravind Reddy Nayani, Alok Gupta, Prassanna Selvaraj, Ravi Kumar Singh, Harsh Vaidya. (2023). Online Bank Management System in Eclipse IDE: A Comprehensive Technical Study. *European Economic Letters (EEL)*, 13(3), 2095–2113. Retrieved from <https://www.eelet.org.uk/index.php/journal/article/view/1874>

- [57] Sagar Shukla. (2021). Integrating Data Analytics Platforms with Machine Learning Workflows: Enhancing Predictive Capability and Revenue Growth. *International Journal on Recent and Innovation Trends in Computing and Communication*, 9(12), 63–74. Retrieved from <https://ijritcc.org/index.php/ijritcc/article/view/11119>
- [58] Sneha Aravind. (2021). Integrating REST APIs in Single Page Applications using Angular and TypeScript. *International Journal of Intelligent Systems and Applications in Engineering*, 9(2), 81 –. Retrieved from <https://ijisae.org/index.php/IJISAE/article/view/6829>
- [59] Sachin Bhatt , " A Comprehensive Guide to SAP Data Center Migrations: Techniques and Case Studies, *International Journal of Scientific Research in Science, Engineering and Technology(IJSRSET)*, Print ISSN : 2395-1990, Online ISSN : 2394-4099, Volume 8, Issue 5, pp.346-358, September-October-2021. Available at doi : <https://doi.org/10.32628/IJSRSET2310630>
- [60] Bhatt, S. (2021). A comprehensive guide to SAP data center migrations: Techniques and case studies. *International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET)*, 8(5), 346–358. <https://doi.org/10.32628/IJSRSET2310630>
- [61] Bhatt, S. (2023). Implementing SAP S/4HANA on AWS: Challenges and solutions for large enterprises. *International Journal of Computer Science and Mobile Computing*, 12(10), 71–88.
- [62] Rinkesh Gajera , "Leveraging Procure for Improved Collaboration and Communication in Multi-Stakeholder Construction Projects", *International Journal of Scientific Research in Civil Engineering (IJSRCE)*, ISSN : 2456-6667, Volume 3, Issue 3, pp.47-51, May-June.2019
- [63] Rinkesh Gajera , "Integrating Power Bi with Project Control Systems: Enhancing Real-Time Cost Tracking and Visualization in Construction", *International Journal of Scientific Research in Civil Engineering (IJSRCE)*, ISSN : 2456-6667, Volume 7, Issue 5, pp.154-160, September-October.2023
- [64] URL : <https://ijsrce.com/IJSRCE123761>
- [65] Rinkesh Gajera, 2023. Developing a Hybrid Approach: Combining Traditional and Agile Project Management Methodologies in Construction Using Modern Software Tools, *ESP Journal of Engineering & Technology Advancements* 3(3): 78-83.
- [66] Gajera, R. (2023). Evaluating the effectiveness of earned value management (EVM) implementation using integrated project control software suites. *Journal of Computational Analysis and Applications*, 31(4), 654-658.
- [67] Saoji, R., Nuguri, S., Shiva, K., Etikani, P., & Bhaskar, V. V. S. R. (2019). Secure federated learning framework for distributed AI model training in cloud environments. *International Journal of Open Publication and Exploration (IJOPE)*, 7(1), 31. Available online at <https://ijope.com>.
- [68] Savita Nuguri, Rahul Saoji, Krishnateja Shiva, Pradeep Etikani, & Vijaya Venkata Sri Rama Bhaskar. (2021). OPTIMIZING AI MODEL DEPLOYMENT IN CLOUD ENVIRONMENTS: CHALLENGES AND SOLUTIONS. *International Journal for Research Publication and Seminar*, 12(2), 159–168. <https://doi.org/10.36676/jrps.v12.i2.1461>
- [69] Kaur, J., Choppadandi, A., Chenchala, P. K., Nuguri, S., & Saoji, R. (2022). Machine learning-driven IoT systems for precision agriculture: Enhancing decision-making and efficiency. *Webology*, 19(6), 2158. Retrieved from <http://www.webology.org>.
- [70] Lohith Paripati, Varun Nakra, Pandi Kirupa Gopalakrishna Pandian, Rahul Saoji, Bhanu Devaguptapu. (2023). Exploring the Potential of Learning in Credit Scoring Models for Alternative Lending Platforms. *European Economic Letters (EEL)*, 13(4), 1331–1241. <https://doi.org/10.52783/eel.v13i4.179>.
- [71] Etikani, P., Bhaskar, V. V. S. R., Nuguri, S., Saoji, R., & Shiva, K. (2023). Automating machine learning workflows with cloud-based pipelines. *International Journal of Intelligent Systems and Applications in Engineering*, 11(1), 375–382. <https://doi.org/10.48047/ijisae.2023.11.1.37>
- [72] Etikani, P., Bhaskar, V. V. S. R., Palavesh, S., Saoji, R., & Shiva, K. (2023). AI-powered algorithmic trading strategies in the stock market. *International Journal of Intelligent Systems and Applications in Engineering*, 11(1), 264–277. https://doi.org/10.1234/ijsdip.org_2023-Volume-11-Issue-1_Page_264-277.
- [73] Saoji, R., Nuguri, S., Shiva, K., Etikani, P., & Bhaskar, V. V. S. R. (2021). Adaptive AI-based deep learning models for dynamic control in software-defined networks. *International Journal of Electrical and Electronics Engineering (IJEEE)*, 10(1), 89–100. ISSN (P): 2278–9944; ISSN (E): 2278–9952
- [74] Varun Nakra, Arth Dave, Savitha Nuguri, Pradeep Kumar Chenchala, Akshay Agarwal. (2023). Robo-Advisors in Wealth Management: Exploring the Role of AI and ML in Financial Planning. *European Economic Letters (EEL)*, 13(5), 2028–2039. Retrieved from <https://www.eelet.org.uk/index.php/journal/article/view/1514>.
- [75] Chinta, U., & Goel, P. (2022). Optimizing Salesforce CRM for large enterprises: Strategies and best practices. *International Journal of Creative Research Thoughts (IJCRT)*, 9(5), 282. <https://doi.org/10.36676/irt>
- [76] Mahadik, S., Chinta, U., Bhimanapati, V. B. R., Goel, P., & Jain, A. (2023). Product roadmap planning in dynamic markets. *Innovative Research Thoughts*, 9(5), 282. <https://doi.org/10.36676/irt>
- [77] Chinta, U., Aggarwal, A., & Jain, S. (2020). Risk management strategies in Salesforce project delivery: A case study approach. *Innovative Research Thoughts*, 7(3).

- [78] Voola, P. K., Chinta, U., Bhimanapati, V. B. R., Goel, O., & Goel, D. P. (2022). AI-powered chatbots in clinical trials: Enhancing patient-clinician interaction and decision-making. SSRN. <https://doi.org/10.2139/ssrn.4984949>
- [79] Voola, P. K., & Chinta, U. (2022). AI-powered chatbots in clinical trials: Enhancing patient-clinician interaction and decision-making. *International Journal for Research Publication & Seminar*, 13(5), 323.
- [80] Chinta, U., Goel, O., & Jain, S. (2023). Enhancing platform health: Techniques for maintaining optimizer, event, security, and system stability in Salesforce. *International Journal for Research Publication & Seminar*, 14(4).
- [81] Agarwal, N., Chinta, U., Bhimanapati, V. B. R., & Jain, S. (2023). EEG-based focus estimation model for wearable devices. *Journal of Neuroscience Research*, 1(2), 102–114.
- [82] Arulkumaran, R., Khatri, D. K., Bhimanapati, V., Goel, L., & Goel, O. (2023). Predictive Analytics in Industrial Processes Using LSTM Networks. *Shodh Sagar® Universal Research Reports*, 10 (4): 512. <https://doi.org/10.36676/urr.v10.i4.13>, 61.
- [83] Bhimanapati, V., Chhapola, A., & Jain, S. (2023). Automation strategies for web and mobile applications in media domains. *International Journal for Research Publication & Seminar*, 14 (5), 225. <https://doi.org/10.36676/jrps.v14.i5> (Vol. 1479).
- [84] Bhimanapati, V., Jain, S., & Goel, O. (2023). Cloud-based solutions for video streaming and big data testing. *Universal Research Reports*, 10 (4), 329. *Shodh Sagar*.
- [85] Arulkumaran, R., Khatri, D. K., Bhimanapati, V., Aggarwal, A., & Gupta, V. (2023). AI-Driven Optimization of Proof-of-Stake Blockchain Validators. *Innovative Research Thoughts*, 9 (5): 315. doi: <https://doi.org/10.36676/irt.v9.i5>, 1490.
- [86] Bhimanapati, V., Goel, O., & Garg, D. M. Enhancing Video Streaming Quality through Multi-Device Testing. *International Journal of Creative Research Thoughts (IJCRT)*, ISSN: 2320, 2882, f555-f572.
- [87] Mahadik, S., Khatri, D. K., Bhimanapati, V., Goel, L., & Jain, A. (2022). The role of data analysis in enhancing product features. *International Journal of Computer Science and Engineering (IJCSE)*, 11(2), 91–108. <https://doi.org/10.36676/ijcse.v11.i2>.
- [88] Agrawal, S., Khatri, D., Bhimanapati, V., Goel, O., & Jain, A. (2022). Optimization Techniques in Supply Chain Planning for Consumer Electronics. *International Journal for Research Publication & Seminar* (Vol. 13, No. 5, p. 356).
- [89] Bhimanapati, V., Goel, O., & Pandian, P. K. G. (2022). Implementing agile methodologies in QA for media and telecommunications. *Innovative Research Thoughts*, 8 (2), 1454.
- [90] Bhimanapati, V. B. R., Renuka, A., & Goel, P. (2021). Effective use of AI-driven third-party frameworks in mobile apps. *Innovative Research Thoughts*, 7 (2).
- [91] Arulkumaran, R., Khatri, D. K., Bhimanapati, V., Goel, L., & Goel, O. (2023). Predictive Analytics in Industrial Processes Using LSTM Networks. *Shodh Sagar® Universal Research Reports*, 10 (4): 512. <https://doi.org/10.36676/urr.v10.i4.13>, 61.
- [92] Bhimanapati, V., Chhapola, A., & Jain, S. (2023). Automation strategies for web and mobile applications in media domains. *International Journal for Research Publication & Seminar*, 14 (5), 225. <https://doi.org/10.36676/jrps.v14.i5> (Vol. 1479).
- [93] Bhimanapati, V., Jain, S., & Goel, O. (2023). Cloud-based solutions for video streaming and big data testing. *Universal Research Reports*, 10 (4), 329. *Shodh Sagar*.
- [94] Arulkumaran, R., Khatri, D. K., Bhimanapati, V., Aggarwal, A., & Gupta, V. (2023). AI-Driven Optimization of Proof-of-Stake Blockchain Validators. *Innovative Research Thoughts*, 9 (5): 315. doi: <https://doi.org/10.36676/irt.v9.i5>, 1490.
- [95] Bhimanapati, V., Goel, O., & Garg, D. M. Enhancing Video Streaming Quality through Multi-Device Testing. *International Journal of Creative Research Thoughts (IJCRT)*, ISSN: 2320, 2882, f555-f572.
- [96] Mahadik, S., Khatri, D. K., Bhimanapati, V., Goel, L., & Jain, A. (2022). The role of data analysis in enhancing product features. *International Journal of Computer Science and Engineering (IJCSE)*, 11(2), 91–108. <https://doi.org/10.36676/ijcse.v11.i2>.
- [97] Agrawal, S., Khatri, D., Bhimanapati, V., Goel, O., & Jain, A. (2022). Optimization Techniques in Supply Chain Planning for Consumer Electronics. *International Journal for Research Publication & Seminar* (Vol. 13, No. 5, p. 356).
- [98] Bhimanapati, V., Goel, O., & Pandian, P. K. G. (2022). Implementing agile methodologies in QA for media and telecommunications. *Innovative Research Thoughts*, 8 (2), 1454.
- [99] Bhimanapati, V. B. R., Renuka, A., & Goel, P. (2021). Effective use of AI-driven third-party frameworks in mobile apps. *Innovative Research Thoughts*, 7 (2).
- [100] Vijayabaskar, S., Thumati, P. R. R., Kanchi, P., Jain, S., & Agarwal, R. (2023). Integrating Cloud-Native Solutions in Financial Services for Enhanced Operational Efficiency. *SHODH SAGAR® Universal Research Reports*, 10(4), 402. <https://doi.org/10.36676/urr.v10.i4.13>, 55.
- [101] Kanchi, P., Priyanshi, E., & Vashishtha, S. (2023). Enhancing business processes with SAP S/4 HANA: A review of case studies. *International Journal of New Technologies and Innovations*, 1(6), a1–a12.
- [102] Kanchi, P., Pandey, P., & Goel, O. (2023). Leveraging SAP Commercial Project Management (CPM) in construction projects: Benefits and case studies. *Journal of Emerging Trends in Networking and*

- Robotics, 1(5), a1–a20.
<https://rjpn.org/jetnr/papers/JETNR2305001.pdf>
- [103]Balasubramaniam, V. S., Thumati, P. R. R., Kanchi, P., Agarwal, R., Goel, O., & Shrivastav, E. A. (2023). Evaluating the Impact of Agile and Waterfall Methodologies in Large Scale IT Projects. *International Journal of Progressive Research in Engineering Management and Science*, 3(12), 397–412.
- [104]Kanchi, P., Goel, P., & Jain, A. (2022). SAP PS implementation and production support in retail industries: A comparative analysis. *International Journal of Computer Science and Production*, 12(2), 759–771.
- [105]Kanchi, P., Jain, S., & Tyagi, P. (2022). Integration of SAP PS with Finance and Controlling Modules: Challenges and Solutions. *Journal of Next-Generation Research in Information and Data*, 2(2).
- [106]Kanchi, P., & Lagan Goel, D. G. S. K. Comparative Analysis of Refurbishment Material Handling in SAP PS. *International Journal of Creative Research Thoughts (IJCRT)*, ISSN: 2320, 2882, f18–f36.
- [107]Chopra, P., Goel, O., & Singh, D. T. (2023). Managing AWS IoT Authorization: A Study of Amazon Verified Permissions. *International Journal of Research and Analytical Reviews (IJRAR)*, 10(3), 6-23.
- [108]Mahadik, S., Antara, F., Chopra, P., Renuka, A., & Goel, O. (2023, October 30). User-centric design: Emphasizing user experience in product development. Available at SSRN, 4985267.
<https://doi.org/10.2139/ssrn.4985267>
- [109]PRonoy Chopra, Akshun Chhapola, & Dr. Sanjouli Kaushik. (2022). Comparative Analysis of Optimizing AWS Inferentia with FastAPI and PyTorch Models. *International Journal of Creative Research Thoughts (IJCRT)*, 10(2), e449-e463.
<http://www.ijcrt.org/papers/IJCRT2202528.pdf>
- [110]Nadukuru, S., Antara, F., Chopra, P., Renuka, A., & Goel, O. (2021). Agile methodologies in global SAP implementations: A case study approach. *International Research Journal of Modernization in Engineering Technology and Science*, 3(11), 1592-1605.
<https://doi.org/10.56726/IRJMETS17272>
- [111]Alahari, J., Mangal, A., Singiri, S., Goel, O., & Goel, P. (2023). The impact of augmented reality (AR) on user engagement in automotive mobile applications. *Innovative Research Thoughts*, 9(5), 202–212.
<https://doi.org/10.36676/irt.v9.i5.1483>
- [112]Vijayabaskar, S., Mangal, A., Singiri, S., Renuka, A., & Chhapola, A. (2023). Leveraging Blue Prism for scalable process automation in stock plan services. *Innovative Research Thoughts*, 9(5), 216.
<https://doi.org/10.36676/irt.v9.i5.1484>
- [113]Khair, M. A., Mangal, A., Singiri, S., Chhapola, A., & Goel, O. (2023). Advanced security features in Oracle HCM cloud. *Universal Research Reports*, 10(4), 493–511.
- [114]Mangal, A. (2023). An analytical review of contemporary AI-driven hiring strategies in professional services. *ESP Journal of Engineering & Technology Advancements*, 3(3), 52–63.
<https://doi.org/10.56472/25832646/JETA-V3I7P108>
- [115]Mangal, A. (2023). Revolutionizing project management with generative AI. *ESP Journal of Engineering & Technology Advancements*, 3(4), 53–60.
<https://doi.org/10.56472/25832646/JETA-V3I8P106>
- [116]Mangal, A., & Gupta, P. (2023). Comparative analysis of optimizing SAP S/4HANA in large enterprises. *International Journal of Creative Research Thoughts (IJCRT)*, 11(4), j367–j379.
<http://www.ijcrt.org/papers/IJCRT23A4209.pdf>
- [117]Mahadik, S., Mangal, A., Singiri, S., Chhapola, A., & Jain, S. (2022). Risk mitigation strategies in product management. *International Journal of Creative Research Thoughts (IJCRT)*, 10(12), 665.
- [118]Mangal, A., & Gupta, D. S., Prof. (Dr) Sangeet Vashishtha. (2022). Enhancing supply chain management efficiency with SAP solutions. *IJRAR-International Journal of Research and Analytical Reviews (IJRAR)*, 9(3), 224–237.
- [119]Agarwal, N., Gunj, R., Mangal, A., Singiri, S., Chhapola, A., & Jain, S. (2022). Self-supervised learning for EEG artifact detection. *International Journal of Creative Research Thoughts (IJCRT)*, 10(12).
- [120]Mangal, A. (2022). Envisioning the future of professional services: ERP, AI, and project management in the age of digital disruption. *ESP Journal of Engineering & Technology Advancements*, 2(4), 71–79.
<https://doi.org/10.56472/25832646/JETA-V2I4P115>
- [121]Mangal, A. (2022). Cost-benefit analysis of implementing automation in IT incident management to minimize financial losses. *ESP Journal of Engineering & Technology Advancements*, 2(2), 27–34.
<https://doi.org/10.56472/25832646/JETA-V2I2P106>
- [122]Mangal, A. (2021). Evaluating planning strategies for prioritizing the most viable projects to maximize investment returns. *ESP Journal of Engineering & Technology Advancements*, 1(2), 69-77.
<https://doi.org/10.56472/25832646/JETA-V1I2P110>
- [123]Mangal, A. K. (2013). Multithreaded Java applications performance improvement. *International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)*, 3(3), 47-50.
- [124]Mangal, A., Jain, V., Jat, R. C., Bharadwaj, S., & Jain, S. (2010). Neuro pharmacological study of leaves of *Camellia sinensis*. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2(3), 132-134.
- [125]Mangal, A., Gaur, U., Jain, A., Goyal, U., Tripathi, R., & Rath, R. (2007). Alkaline phosphatase and placental alkaline phosphatase activity in serum of normal and pregnancy-induced hypertensive mothers. *Journal of the International Medical Sciences Academy*, 20, 117-120.
- [126]Mangal, A., Shrivastava, P., Gaur, U., Jain, A., Goyal, U., & Rath, G. (2005). Histochemical analysis of placental alkaline phosphatase in hypertensive disorders complicating pregnancy. *Journal of the Anatomical Society of India*, 54(2), 2005-12.

- [127]Cherukuri, H., Mahimkar, S., Goel, O., Goel, D. P., & Singh, D. S. (2023). Network traffic analysis for intrusion detection: Techniques for monitoring and analyzing network traffic to identify malicious activities. *International Journal of Creative Research Thoughts (IJCRT)*, 11(3), i339–i350.
- [128]Agarwal, N., Gunj, R., Mahimkar, S., & Shekhar, S. Prof. Arpit Jain, & Prof. Punit Goel. (2023). Signal Processing for Spinal Cord Injury Monitoring with sEMG. *Innovative Research Thoughts*, 9(5), 334. <https://doi.org/10.36676/irt.v9.i5.1491>.
- [129]Salunkhe, V., Mahimkar, S., & Shekhar, S. Prof. (Dr.) Arpit Jain, & Prof. (Dr.) Punit Goel. (2023). The Role of IoT in Connected Health: Improving Patient Monitoring and Engagement in Kidney Dialysis. *SHODH SAGAR® Universal Research Reports*, 10(4), 437.
- [130]Voola, P. K., Mahimkar, S., & Shekhar, S. Prof. (Dr.) Punit Goel, & Vikhyat Gupta. (2022). Machine Learning in ECOA Platforms: Advancing Patient Data Quality and Insights. *International Journal of Creative Research Thoughts*, 10, 12.
- [131]Vijayabaskar, S., Mahimkar, S., Shekhar, S., Jain, S., & Agarwal, R. (2022). The Role of Leadership in Driving Technological Innovation in Financial Services. *International Journal of Creative Research Thoughts*, 10(12). <https://ijcrt.org/download.php?file=IJCRT2212662.pdf>.
- [132]Mahimkar, S., Pandey, D. P., & Goel, O. Utilizing Machine Learning for Predictive Modelling of TV Viewership Trends. *International Journal of Creative Research Thoughts (IJCRT)*, ISSN, 2320–2882.
- [133]Mahimkar, S., & Lagan Goel, D. G. S. K. (2021). Predictive Analysis of TV Program Viewership Using Random Forest Algorithms. *IJRAR-International Journal of Research and Analytical Reviews (IJRAR)*, 309–322.
- [134]Arulkumaran, R., Mahimkar, S., Shekhar, S., Jain, A., & Jain, A. (2021). Analyzing Information Asymmetry in Financial Markets Using Machine Learning. *International Journal of Progressive Research in Engineering Management and Science*, 1(2), 53–67. <https://doi.org/10.58257/IJPREMS16>.
- [135]Agarwal, N., Gunj, R., Mahimkar, S., & Shekhar, S. Prof. Arpit Jain, & Prof. Punit Goel. (2023). Signal Processing for Spinal Cord Injury Monitoring with sEMG. *Innovative Research Thoughts*, 9(5), 334. <https://doi.org/10.36676/irt.v9.i5.1491>.
- [136]Salunkhe, V., Mahimkar, S., & Shekhar, S. Prof. (Dr.) Arpit Jain, & Prof. (Dr.) Punit Goel. (2023). The Role of IoT in Connected Health: Improving Patient Monitoring and Engagement in Kidney Dialysis. *SHODH SAGAR® Universal Research Reports*, 10(4), 437.
- [137]Voola, P. K., Mahimkar, S., & Shekhar, S. Prof. (Dr.) Punit Goel, & Vikhyat Gupta. (2022). Machine Learning in ECOA Platforms: Advancing Patient Data Quality and Insights. *International Journal of Creative Research Thoughts*, 10, 12.
- [138]Vijayabaskar, S., Mahimkar, S., Shekhar, S., Jain, S., & Agarwal, R. (2022). The Role of Leadership in Driving Technological Innovation in Financial Services. *International Journal of Creative Research Thoughts*, 10(12). <https://ijcrt.org/download.php?file=IJCRT2212662.pdf>.
- [139]Shekhar, S., Prof. (Dr.) Punit Goel, & Prof. (Dr.) Arpit Jain. Comparative Analysis of Optimizing Hybrid Cloud Environments Using AWS, Azure, and GCP. *International Journal of Creative Research Thoughts (IJCRT)*, ISSN: 2320–2882, e791–e806.
- [140]Shekhar, S., SHALU, J., & Tyagi, D. P. (2020). Advanced Strategies for Cloud Security and Compliance: A Comparative Study. *IJRAR-International Journal of Research and Analytical Reviews (IJRAR)*, E-ISSN 2348–1269, P-ISSN 2349–5138, 396–407.
- [141]Agarwal, N., Gunj, R., Chinth, V. R., Pamadi, V. N., Aggarwal, A., & Gupta, V. (2023). GANs for Enhancing Wearable Biosensor Data Accuracy. *SHODH SAGAR® Universal Research Reports*, 10(4), 533. <https://doi.org/10.36676/urr.v10.i4.13.62>.
- [142]Agrawal, S., Chinth, V. R., Pamadi, V. N., Aggarwal, A., & Goel, P. (2023). The Role of Predictive Analytics in Inventory Management. *Shodh Sagar Universal Research Reports*, 10(4), 456. <https://doi.org/10.36676/urr.v10.i4.13.58>.
- [143]Vadlamani, S., Agarwal, N., Chinth, V. R., Shrivastav, A., Jain, S., & Goel, O. (2023). Cross-platform data migration strategies for enterprise data warehouses. *International Research Journal of Modernization in Engineering, Technology, and Science*, 5(11), 1–26. <https://doi.org/10.56726/IRJMETS46858>.
- [144]Salunkhe, V., Chinth, V. R., Pamadi, V. N., Jain, A., & Goel, O. (2022). AI-Powered Solutions for Reducing Hospital Readmissions: A Case Study on AI-Driven Patient Engagement. *International Journal of Creative Research Thoughts*, 10(12), 757-764.
- [145]Agarwal, N., Gunj, R., Chinth, V. R., Kolli, R. K., Goel, O., & Agarwal, R. (2022). Deep Learning for Real Time EEG Artifact Detection in Wearables. *International Journal for Research Publication & Seminar*, 13(5), 402.
- [146]Alahari, J., Thakur, D., Goel, P., Chinth, V. R., & Kolli, R. K. (2022). Enhancing iOS Application Performance through Swift UI: Transitioning from Objective-C to Swift. *International Journal for Research Publication & Seminar*, 13(5), 312.
- [147]Chinth, V. R., & Priyanshi, P. Sangeet Vashishtha. (2020). 5G Networks: Optimization of Massive MIMO. *IJRAR-International Journal of Research and Analytical Reviews (IJRAR)*, 7(1), 389-406.
- [148]Agarwal, N., Gunj, R., Chinth, V. R., Pamadi, V. N., Aggarwal, A., & Gupta, V. (2023). GANs for Enhancing Wearable Biosensor Data Accuracy. *SHODH SAGAR® Universal Research Reports*, 10(4), 533. <https://doi.org/10.36676/urr.v10.i4.13.62>.
- [149]Agrawal, S., Chinth, V. R., Pamadi, V. N., Aggarwal, A., & Goel, P. (2023). The Role of Predictive

- Analytics in Inventory Management. *Shodh Sagar Universal Research Reports*, 10(4), 456. <https://doi.org/10.36676/urr.v10.i4.13>, 58.
- [150] Pamadi, V. N., Chhapola, A., & Agarwal, N. (2023). Performance analysis techniques for big data systems. *International Journal of Computer Science and Publications*, 13(2), 217-236. <https://rjpn.org/ijcspub/papers/IJCSP23B1501.pdf>.
- [151] Salunkhe, V., Chintha, V. R., Pamadi, V. N., Jain, A., & Goel, O. (2022). AI-Powered Solutions for Reducing Hospital Readmissions: A Case Study on AI-Driven Patient Engagement. *International Journal of Creative Research Thoughts*, 10(12), 757-764.
- [152] Vishesh Narendra Pamadi, Dr. Priya Pandey, Om Goel. (2021). Comparative Analysis of Optimization Techniques for Consistent Reads in Key-Value Stores. *International Journal of Creative Research Thoughts (IJCRT)*, 9(10), d797-d813. <http://www.ijcrt.org/papers/IJCRT2110459.pdf>
- [153] Pamadi, V. N., Chaurasia, D. A. K., & Singh, D. T. (2020). Comparative Analysis OF GRPC VS. ZeroMQ for Fast Communication. *International Journal of Emerging Technologies and Innovative Research (www.jetir.org)*, 7(2), 937-951.
- [154] Pamadi, V. N., Chaurasia, D. A. K., & Singh, D. T. (2020). Effective Strategies for Building Parallel and Distributed Systems. *International Journal of Novel Research and Development (www.ijnrd.org)*, 5(1), 23-42.
- [155] Mahadik, S., Antara, F., Chopra, P., Renuka, A., & Goel, O. (2023, October 30). User-centric design: Emphasizing user experience in product development. Available at SSRN 4985267. <https://doi.org/10.2139/ssrn.4985267>
- [156] Antara, E. F. N., Khan, S., & Goel, O. (2023). Workflow management automation: Ansible vs. Terraform. *Journal of Emerging Technologies and Network Research*, 1(8), a1-a11. (rjpn <https://rjpn.org/jetnr/papers/JETNR2308001.pdf>)
- [157] Antara, F. N. U., Goel, O., & Gupta, D. P. (2022). Enhancing Data Quality and Efficiency in Cloud Environments: Best Practices. *International Journal of Research and Analytical Reviews (IJRAR)*, 9(3), 210-223.
- [158] Nadukuru, S., Antara, F., Chopra, P., Renuka, A., & Goel, O. (2021). Agile methodologies in global SAP implementations: A case study approach. *International Research Journal of Modernization in Engineering Technology and Science*, 3(11), 1592-1605. <https://doi.org/10.56726/IRJMETS17272>
- [159] Bhimanapati, V., Goel, O., & Pandian, P. K. G. (2023). Implementing agile methodologies in QA for media and telecommunications. *Innovative Research Thoughts*, 8(2), 1454.
- [160] Bhimanapati, V. B. R., Jain, S., & Pandian, P. K. G. (2023). Mobile application security best practices for fintech applications. *International Journal of Creative Research Thoughts (IJCRT)*, ISSN: 2320-2882.
- [161] Mahadik, S., Chintu, U., Bhimanapati, V. B. R., Goel, P., & Jain, A. (2023). Product roadmap planning in dynamic markets. *Innovative Research Thoughts*, 9(5), 282. <https://doi.org/10.36676/irt>
- [162] Bhimanapati, V. B. R., Renuka, A., & Goel, P. (2022). Effective use of AI-driven third-party frameworks in mobile apps. *Innovative Research Thoughts*, 7(2).
- [163] Voola, P. K., Chintu, U., Bhimanapati, V. B. R., Goel, O., & Goel, D. P. (2022). AI-powered chatbots in clinical trials: Enhancing patient-clinician interaction and decision-making. SSRN. <https://doi.org/ssrn.4984949>
- [164] Agarwal, N., Chintu, U., Bhimanapati, V. B. R., & Jain, S. (2023). EEG-based focus estimation model for wearable devices. *Journal of Neuroscience Research*, 1(2), 102-114.
- [165] Voola, P. K., Avancha, S., Gajbhiye, B., Goel, O., & Jain, U. (2023). Automation in mobile testing: Techniques and strategies for faster, more accurate testing in healthcare applications. *Shodh Sagar@ Universal Research Reports*, 10(4), 420-434. <https://doi.org/10.36676/urr.v10.i4.1356>
- [166] Avancha, S., Jain, S., & Pandian, P. K. G. (2023). Risk management in IT service delivery using big data analytics. *Universal Research Reports*, 10(2), 272-285. <https://doi.org/10.36676/urr.v10.i2.1330>
- [167] Salunkhe, V., Avancha, S., Gajbhiye, B., Jain, U., & Goel, P. (2022). AI integration in clinical decision support systems: Enhancing patient outcomes through SMART on FHIR and CDS Hooks. *International Journal for Research Publication & Seminar*, 13(5), 338-354. <https://doi.org/10.36676/jrps.v13.i5.1506>
- [168] Avancha, S., Khan, S., & Goel, O. (2021). AI-driven service delivery optimization in IT: Techniques and strategies. *International Journal of Creative Research Thoughts (IJCRT)*, 9(3), 6496-6510. Retrieved from <http://www.ijcrt.org/>
- [169] Avancha, S., Chhapola, A., & Jain, S. (2021). Client relationship management in IT services using CRM systems. *Innovative Research Thoughts*, 7(1).
- [170] Khair, M. A., Avancha, S., Gajbhiye, B., Goel, P., & Jain, A. (2021). The role of Oracle HCM in transforming HR operations. *Innovative Research Thoughts*, 9(5), 300. doi: 10.36676/irt.v9.i5.1489
- [171] Eeti, S., Jain, A., & Goel, P. (2023). A comparative study of NoSQL databases: MongoDB, HBase, and Phoenix. *International Journal of New Trends in Information Technology*, 1(12), a91-a108. Retrieved from <https://rjpn.org/ijnti/papers/IJNTI2312013.pdf>
- [172] Alahari, J., Kolli, R. K., Eeti, S., Khan, S., & Verma, P. (2022). Optimizing iOS user experience with SwiftUI and UIKit: A comprehensive analysis. *International Journal of Creative Research Thoughts*, 10(12), f699.
- [173] Mahadik, S., Kolli, R. K., Eeti, S., Goel, P., & Jain, A. (2021). Scaling startups through effective product management. *International Journal of Progressive*

Research in Engineering Management and Science, 1(2), 68–81.

[174]Eeti, S., & Goel, P., & Renuka, A. (2021). Strategies for migrating data from legacy systems to the cloud: Challenges and solutions. *TIJER (The International Journal of Engineering Research)*, 8(10), a1–a11.

[175]Shanmukha Eeti, D. A. K. C., & Singh, D. T. (2024). Real-time data processing: An analysis of PySpark's capabilities. *IJRAR-International Journal of Research and Analytical Reviews (IJRAR)*, E-ISSN 2348-1269.

[176]Shanmukha, E., & Priyanshi, P. Sangeet Vashishtha(2022). Optimizing data pipelines in AWS: Best practices and techniques. *International Journal of Creative Research Thoughts (IJCRT)*, ISSN 2320-2882, i351–i365.

[177]Arulkumaran, R., Khatri, D. K., Bhimanapati, V., Goel, L., & Goel, O. (2023). Predictive analytics in industrial processes using LSTM networks. *Shodh Sagar® Universal Research Reports*, 10(4), 512. <https://doi.org/10.36676/urr.v10.i4.1361>

[178]Arulkumaran, R., Khatri, D. K., Bhimanapati, V., Aggarwal, A., & Gupta, V. (2023). AI-driven optimization of proof-of-stake blockchain validators. *Innovative Research Thoughts*, 9(5), 315. <https://doi.org/10.36676/irt.v9.i5.1490>

[179]Khatri, D., Aggarwal, A., & Goel, P. (2022). AI chatbots in SAP FICO: Simplifying transactions. *Innovative Research Thoughts*, 8(3), Article 1455.

[180]Agrawal, S., Khatri, D., Bhimanapati, V., Goel, O., & Jain, A. (2022). Optimization techniques in supply chain planning for consumer electronics. *International Journal for Research Publication & Seminar*, 13(5), 356.

[181]Agrawal, S., Khatri, D., Bhimanapati, V., Goel, O., & Jain, A. (2022). Optimization techniques in supply chain planning for consumer electronics. *International Journal for Research Publication & Seminar*, 13(5), 356.

[182]Khatri, D. K., Chhapola, A., & Jain, S. (2021) AI-enabled applications in SAP FICO for enhanced reporting. *International Journal of Creative Research Thoughts (IJCRT)*, ISSN: 2320-2882, k378-k393

[183]Voola, P. K., Avancha, S., Gajbhiye, B., Goel, O., & Jain, U. (2023). Automation in mobile testing: Techniques and strategies for faster, more accurate testing in healthcare applications. *Shodh Sagar® Universal Research Reports*, 10(4), 420–434. <https://doi.org/10.36676/urr.v10.i4.1356>

[184]Voola, P. K., Avancha, S., Gajbhiye, B., Goel, O., & Jain, U. (2023). Automation in mobile testing: Techniques and strategies for faster, more accurate testing in healthcare applications. *SSRN*. Available at <https://ssrn.com/abstract=4984957>

[185]Khair, M. A., Avancha, S., Gajbhiye, B., Goel, P., & Jain, A. (2023). The role of Oracle HCM in transforming HR operations. *Innovative Research Thoughts*, 9(5), 300. <https://doi.org/10.36676/irt.v9.i5.1489>

[186]Gajbhiye, B., Aggarwal, A., & Goel, P. (2023). Security automation in application development using robotic process automation (RPA). *Universal Research Reports*, 10(3), 167.

[187]Salunkhe, V., Avancha, S., Gajbhiye, B., Jain, U., & Goel, P. (2022). AI integration in clinical decision support systems: Enhancing patient outcomes through SMART on FHIR and CDS Hooks. *SSRN*. Available at <https://ssrn.com/abstract=4984977>

[188]Pakanati, D., Chhapola, A., & Kaushik, S. . Comparative analysis of Oracle Fusion Cloud's capabilities in financial integrations. *International Journal of Creative Research Thoughts (IJCRT)*, 2320-2882.

[189]Pakanati, D. (2023). Optimizing procurement processes: A study on Oracle Fusion SCM. *International Journal of Research and Analytical Reviews (IJRAR)*, 10(1), 35. Available at www.ijrar.org

[190]Dasaiah Pakanati, Prof.(Dr.) Punit Goel, Prof.(Dr.) Arpit Jain, "Optimizing Procurement Processes: A Study on Oracle Fusion SCM", *IJRAR - International Journal of Research and Analytical Reviews (IJRAR)*, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.10, Issue 1, Page No pp.35-47, March 2023. - <https://www.ijrar.org/papers/IJRAR23A3238.pdf>

[191]Pakanati, D., Goel, P., & Jain, A. (2023, March). Optimizing procurement processes: A study on Oracle Fusion SCM. *International Journal of Research and Analytical Reviews (IJRAR)*, 10(1), 35–47. <https://www.ijrar.org/papers/IJRAR23A3238.pdf>

[192]Pakanati, D., Goel, E. L., & Kushwaha, D. G. S. (2023). Implementing cloud-based data migration: Solutions with Oracle Fusion. *Journal of Emerging Trends in Network and Research*, 1(3), a1-a11. <https://rjpn.org/jetnr/viewpaperforall.php?paper=JETNR2303001>

[193]Pakanati, D., Rao, P. R., Goel, O., Goel, P., & Pandey, P. (2023). Fault tolerance in cloud computing: Strategies to preserve data accuracy and availability in case of system failures. *International Journal of Creative Research Thoughts (IJCRT)*, 11(1), f8-f17.

[194]Alahari, Jaswanth, Dasaiah Pakanati, Harshita Cherukuri, Om Goel, & Prof. (Dr.) Arpit Jain. (2023). "Best Practices for Integrating OAuth in Mobile Applications for Secure Authentication." *SHODH SAGAR® Universal Research Reports*, 10(4): 385. <https://doi.org/10.36676/urr.v10.i4>.

[195]Pakanati, D., Goel, E. L., & Kushwaha, D. G. S. (2023). Implementing cloud-based data migration: Solutions with Oracle Fusion. *Journal of Emerging Trends in Network and Research*, 1(3), a1-a11.

[196]Cherukuri, H., Pandey, P., & Siddharth, E. (2020). Containerized data analytics solutions in on-premise financial services. *International Journal of Research and Analytical Reviews (IJRAR)*.

[197]Pakanati, D., Goel, B., & Tyagi, P. (2021). Troubleshooting common issues in Oracle Procurement Cloud: A guide. *International Journal of Computer*

- Science and Public Policy, 11(3), 14-28. <https://rjpn.org/ijcspub/papers/IJCSP21C1003.pdf>
- [198]Pakanati, D., Goel, B., & Tyagi, P. (2021). Troubleshooting common issues in Oracle Procurement Cloud: A guide. *International Journal of Computer Science and Public Policy*, 11(3), 14-28. <https://rjpn.org/ijcspub/papers/IJCSP21C1003.pdf>
- [199]Kushwaha, G. S. (2021). Monetizing financial data analytics: Best practice. *International Journal of Computer Science and Publication (IJCSPub)*, 11(1), 76-87. <https://rjpn.org/ijcspub/papers/IJCSP21A1011.pdf>
- [200]Cherukuri, H., Pandey, P., & Siddharth, E. (2020). Containerized data analytics solutions in on-premise financial services. *International Journal of Research and Analytical Reviews (IJRAR)*, 7(1), 150-159. <https://www.ijrar.org/papers/IJRAR19Y3150.pdf>
- [201]Cherukuri, H., Goel, E. L., & Kushwaha, G. S. (2021). Monetizing financial data analytics: Best practice. *International Journal of Computer Science and Publication (IJCSPub)*, 11(1), 76-87. <https://rjpn.org/ijcspub/papers/IJCSP21A1011.pdf>
- [202]Prathyusha Nama, Purushotham Reddy, & Guru Prasad Selvarajan. (2023). Intelligent Data Replication Strategies: Using AI to Enhance Fault Tolerance and Performance in Multi-Node Database Systems. *Well Testing Journal*, 32, 110–122. Retrieved from <https://welltestingjournal.com/index.php/WT/article/view/111>
- [203]Nama, P. (2023). AI-driven innovations in cloud computing: Transforming scalability, resource management, and predictive analytics in distributed systems. *International Research Journal of Modernization in Engineering Technology and Science*, 5(12), 4165-4174. IRJMETS.
- [204]Prathyusha Nama, Purushotham Reddy, & Guru Prasad Selvarajan. (2023). Leveraging Generative AI for Automated Test Case Generation: A Framework for Enhanced Coverage and Defect Detection. *Well Testing Journal*, 32(2), 74–91. Retrieved from <https://welltestingjournal.com/index.php/WT/article/view/110>
- [205]Vijayabaskar, S., Thumati, P. R. R., Kanchi, P., Jain, S., & Agarwal, R. (2023). Integrating cloud-native solutions in financial services for enhanced operational efficiency. *SHODH SAGAR® Universal Research Reports*, 10(4), 402. <https://doi.org/10.36676/urr.v10.i4.1355>
- [206]Rao, P. R., Chaurasia, A. K., & Singh, S. P. (2023). Modern web design: Utilizing HTML5, CSS3, and responsive techniques. *Journal of Novel Research and Innovative Development*, 1(8), 1–18. <https://jnrid.org>
- [207]Rao, U. P. R., Goel, L., & Kushwaha, G. S. (2023). Analyzing data and creating reports with Power BI: Methods and case studies. *International Journal of Novel Trends and Innovation*, 1(9), 1–15. IJNTI.
- [208]Rao, P. R., Goel, P., & Renuka, A. (2023). Creating efficient ETL processes: A study using Azure Data Factory and Databricks. *The International Journal of Engineering Research*, 10(6), 816–829.
- [209]Rao, P. R., Priyanshi, E., & Vashishtha, S. (2023). Angular vs. React: A comparative study for single-page applications. *International Journal of Current Science*, 13(1), 1–20. IJCSPUB.
- [210]Balasubramaniam, V. S., Thumati, P. R. R., Kanchi, P., Agarwal, R., Goel, O., & Shrivastav, E. A. (2023). Evaluating the impact of agile and waterfall methodologies in large-scale IT projects. *International Journal of Progressive Research in Engineering Management and Science*, 3(12), 397–412.
- [211]Pattabi Rama Rao, E., & Vashishtha, S. (2023). Angular vs. React: A comparative study for single-page applications. *International Journal of Computer Science and Programming*, 13(1), 875–894.
- [212]Gajbhiye, B., Aggarwal, A., & Goel, P. (2023). Security automation in application development using robotic process automation (RPA). *Universal Research Reports*, 10(3), 167.
- [213]Rao, P. R., Goel, P., & Jain, A. (2022). Data management in the cloud: An in-depth look at Azure Cosmos DB. *International Journal of Research and Analytical Reviews*, 9(2), 656–671. <https://www.ijrar.org/>