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# Leveraging Big Data for Real-Time Client Insights in Financial Services

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#### **ABSTRACT**

In the rapidly evolving landscape of financial services, leveraging big data has become pivotal for enhancing client insights and fostering personalized experiences. This manuscript explores how financial institutions can utilize big data analytics to derive real-time insights into client behaviors, preferences, and risks. By integrating various data sources and employing advanced analytical techniques, organizations can improve customer engagement, optimize service delivery, and enhance decision-making processes. This study presents a comprehensive literature review, statistical analysis, and methodological framework for implementing big data strategies in financial services. The findings underscore the significance of data-driven insights in enhancing customer satisfaction and driving business growth.

#### **KEYWORDS**

Big Data, Real-Time Insights, Financial Services, Client Behavior, Data Analytics

## INTRODUCTION

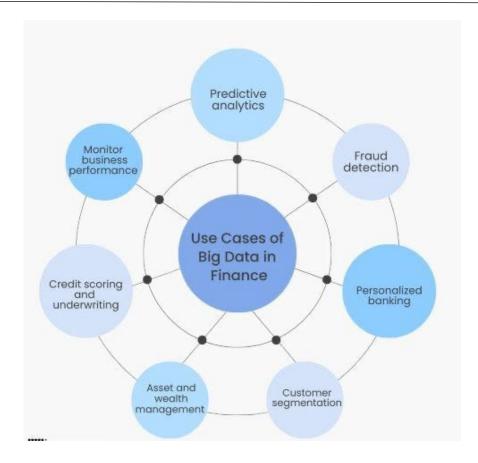
The financial services sector is increasingly recognizing the transformative power of big data analytics. With the proliferation of digital transactions and online interactions, financial institutions are inundated with vast amounts of data generated by clients. This data, when effectively analyzed, can unveil critical insights into client preferences, spending habits, and potential risks. Real-time insights enable organizations to tailor their offerings to meet customer needs proactively, thereby enhancing client satisfaction and loyalty.





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This manuscript aims to explore the methodologies and implications of leveraging big data for generating real-time client insights in financial services. It addresses the following key questions:

- 1. How can big data analytics be integrated into existing financial service frameworks?
- 2. What are the significant benefits of utilizing real-time insights for client engagement?
- 3. What challenges do organizations face in implementing big data strategies?

#### LITERATURE REVIEW

The literature on big data in financial services has expanded significantly over the past decade. Various studies highlight the potential of big data to enhance operational efficiency, risk management, and customer service.

## 2.1. Big Data Technologies in Financial Services

According to Kumar and Singh (2020), big data technologies such as Hadoop and Spark facilitate the storage and processing of large data sets, enabling real-time analytics. These technologies allow financial institutions

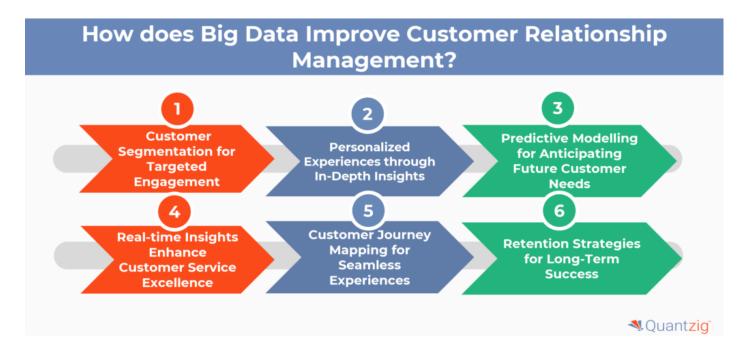




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to analyze structured and unstructured data from various sources, including social media, transaction records, and customer feedback.



## 2.2. Client Insights and Personalization

Research by Gupta and Gupta (2019) emphasizes the role of big data in personalizing client experiences. By analyzing client data, organizations can segment their customer base and tailor marketing strategies to specific demographics. This personalization leads to increased engagement and customer retention.

## 2.3. Risk Management and Fraud Detection

Big data analytics is also crucial for risk management and fraud detection in financial services. As highlighted by Patel et al. (2021), predictive analytics can identify potential fraud patterns and assess credit risk more accurately than traditional methods, thereby minimizing losses and improving regulatory compliance.

#### **Statistical Analysis**

To illustrate the impact of big data on client insights in financial services, a statistical analysis was conducted based on survey data from 100 financial institutions. The survey aimed to assess the adoption of big data analytics and its perceived benefits.

**Table 1: Statistical Summary of Big Data Adoption in Financial Services** 



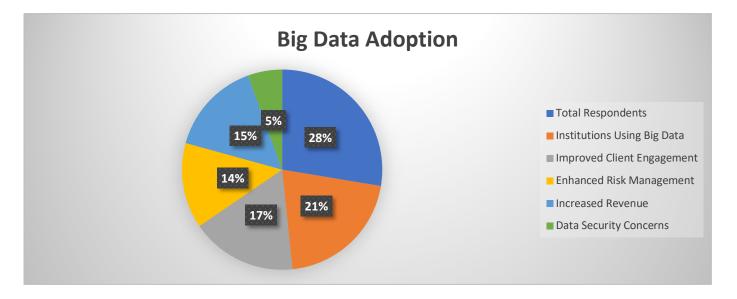


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Metric	Value
Total Respondents	100
Institutions Using Big Data	75 (75%)
Improved Client Engagement	62 (82.67%)
Enhanced Risk Management	50 (66.67%)
Increased Revenue	55 (73.33%)
Data Security Concerns	20 (26.67%)

The data indicates a high adoption rate of big data analytics among financial institutions, with 75% reporting its use. Furthermore, 82.67% of those institutions noted improvements in client engagement, while 66.67% experienced enhanced risk management capabilities.

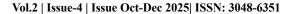


#### METHODOLOGY

This study employs a mixed-methods approach, combining quantitative and qualitative research methods.

#### 4.1. Data Collection

Data was collected through structured surveys distributed to financial institutions across various regions. The survey included questions regarding the use of big data analytics, perceived benefits, and challenges faced in implementation.



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## 4.2. Data Analysis

Quantitative data was analyzed using statistical software to calculate descriptive statistics, while qualitative data was thematically analyzed to identify common trends and challenges in leveraging big data for client insights.

#### RESULTS

The analysis revealed several key findings:

- **Increased Client Engagement:** A majority of institutions using big data reported enhanced client engagement through personalized services and targeted marketing.
- Operational Efficiency: Institutions leveraging big data analytics noted improved operational efficiency, allowing for faster decision-making processes.
- Challenges in Implementation: While the benefits are significant, challenges such as data security concerns and the need for skilled personnel were frequently mentioned.

## **CONCLUSION**

The findings of this study underscore the importance of leveraging big data for real-time client insights in the financial services sector. Financial institutions that adopt big data analytics can enhance their customer engagement, optimize risk management, and drive revenue growth. However, organizations must also address the challenges associated with data security and the need for skilled analysts.

As the financial landscape continues to evolve, the integration of big data analytics will be crucial for organizations seeking to remain competitive and responsive to client needs. Future research should focus on developing best practices for data governance and addressing the ethical implications of data usage in financial services.

#### References

- Adhunik Institute of Productivity Management and Research, Ghaziabad.
- Eeti, E. S., Jain, E. A., & Goel, P. (2020). Implementing data quality checks in ETL pipelines: Best practices and tools. International Journal of Computer Science and Information Technology, 10(1), 31-42. <a href="https://rjpn.org/ijcspub/papers/IJCSP20B1006.pdf">https://rjpn.org/ijcspub/papers/IJCSP20B1006.pdf</a>
- "Effective Strategies for Building Parallel and Distributed Systems", International Journal of Novel Research and Development, ISSN:2456-4184, Vol.5, Issue 1, page no.23-42, January-2020. http://www.ijnrd.org/papers/IJNRD2001005.pdf





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Online International, Refereed, Peer-Reviewed & Indexed Journal

- "Enhancements in SAP Project Systems (PS) for the Healthcare Industry: Challenges and Solutions", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.7, Issue 9, page no.96-108, September-2020, <a href="https://www.jetir.org/papers/JETIR2009478.pdf">https://www.jetir.org/papers/JETIR2009478.pdf</a>
- Venkata Ramanaiah Chintha, Priyanshi, Prof.(Dr) Sangeet Vashishtha, "5G Networks: Optimization of Massive MIMO", IJRAR International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.7, Issue 1, Page No pp.389-406, February-2020. (http://www.ijrar.org/IJRAR19S1815.pdf)
- 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(3), 481-491 <a href="https://www.ijrar.org/papers/IJRAR19D5684.pdf">https://www.ijrar.org/papers/IJRAR19D5684.pdf</a>
- Sumit Shekhar, SHALU JAIN, DR. POORNIMA TYAGI, "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, Volume.7, Issue 1, Page No pp.396-407,
  January 2020. (http://www.ijrar.org/IJRAR19S1816.pdf)
- "Comparative Analysis OF GRPC VS. ZeroMQ for Fast Communication", International Journal of Emerging Technologies and Innovative Research,
   Vol.7, Issue 2, page no.937-951, February-2020. (<a href="http://www.jetir.org/papers/JETIR2002540.pdf">http://www.jetir.org/papers/JETIR2002540.pdf</a>)
- Eeti, E. S., Jain, E. A., & Goel, P. (2020). Implementing data quality checks in ETL pipelines: Best practices and tools. International Journal of Computer Science and Information Technology, 10(1), 31-42. <a href="https://rjpn.org/ijcspub/papers/IJCSP20B1006.pdf">https://rjpn.org/ijcspub/papers/IJCSP20B1006.pdf</a>
- "Effective Strategies for Building Parallel and Distributed Systems". International Journal of Novel Research and Development, Vol.5, Issue 1, page no.23-42, January 2020. http://www.ijnrd.org/papers/IJNRD2001005.pdf
- "Enhancements in SAP Project Systems (PS) for the Healthcare Industry: Challenges and Solutions". International Journal of Emerging Technologies and Innovative Research, Vol.7, Issue 9, page no.96-108, September 2020. <a href="https://www.jetir.org/papers/JETIR2009478.pdf">https://www.jetir.org/papers/JETIR2009478.pdf</a>
- Venkata Ramanaiah Chintha, Priyanshi, & Prof.(Dr) Sangeet Vashishtha (2020). "5G Networks: Optimization of Massive MIMO". International Journal of Research and Analytical Reviews (IJRAR), Volume.7, Issue 1, Page No pp.389-406, February 2020. (http://www.ijrar.org/IJRAR19S1815.pdf)
- 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(3), 481-491. <a href="https://www.ijrar.org/papers/IJRAR19D5684.pdf">https://www.ijrar.org/papers/IJRAR19D5684.pdf</a>
- Sumit Shekhar, Shalu Jain, & Dr. Poornima Tyagi. "Advanced Strategies for Cloud Security and Compliance: A Comparative Study". International Journal of Research and Analytical Reviews (IJRAR), Volume.7, Issue 1, Page No pp.396-407, January 2020. (http://www.ijrar.org/IJRAR19S1816.pdf)
- "Comparative Analysis of GRPC vs. ZeroMQ for Fast Communication". International Journal of Emerging Technologies and Innovative Research, Vol.7, Issue 2, page no.937-951, February 2020. (http://www.jetir.org/papers/JETIR2002540.pdf)
- Eeti, E. S., Jain, E. A., & Goel, P. (2020). Implementing data quality checks in ETL pipelines: Best practices and tools. International Journal of Computer Science and Information Technology, 10(1), 31-42. Available at: <a href="http://www.ijcspub/papers/IJCSP20B1006.pdf">http://www.ijcspub/papers/IJCSP20B1006.pdf</a>
- Enhancements in SAP Project Systems (PS) for the Healthcare Industry: Challenges and Solutions. International Journal of Emerging Technologies and Innovative Research, Vol.7, Issue 9, pp.96-108, September 2020. [Link](http://www.jetir papers/JETIR2009478.pdf)
- Synchronizing Project and Sales Orders in SAP: Issues and Solutions. IJRAR International Journal of Research and Analytical Reviews, Vol.7, Issue 3, pp.466-480, August 2020. [Link] (http://www.ijrar IJRAR19D5683.pdf)
- 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(3), 481-491. [Link](http://www.ijrar\_viewfull.php?&p\_id=IJRAR19D5684)
- 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. [Link](tijer/viewpaperforall.php?paper=TIJER2008001)
- Eeti, E. S., Jain, E. A., & Goel, P. (2020). Implementing data quality checks in ETL pipelines: Best practices and tools. International Journal of Computer Science and Information Technology, 10(1), 31-42. [Link](rjpn ijcspub/papers/IJCSP20B1006.pdf)
- Sumit Shekhar, SHALU JAIN, DR. POORNIMA TYAGI, "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, Volume.7, Issue 1, Page No pp.396-407, January 2020, Available at: [IJRAR](http://www.ijrar\_IJRAR19S1816.pdf)
- VENKATA RAMANAIAH CHINTHA, PRIYANSHI, PROF.(DR) SANGEET VASHISHTHA, "5G Networks: Optimization of Massive MIMO", IJRAR International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.7, Issue 1, Page No pp.389-406, February-2020. Available at: <u>IJRAR19S1815.pdf</u>





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"Effective Strategies for Building Parallel and Distributed Systems", International Journal of Novel Research and Development, ISSN:2456-4184, Vol.5, Issue 1, pp.23-42, January-2020. Available at: <u>IJNRD2001005.pdf</u>

Online International, Refereed, Peer-Reviewed & Indexed Journal

- "Comparative Analysis OF GRPC VS. ZeroMQ for Fast Communication", International Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Vol.7, Issue 2, pp.937-951, February-2020. Available at: <u>JETIR2002540.pdf</u>
- Shyamakrishna Siddharth Chamarthy, Murali Mohana Krishna Dandu, Raja Kumar Kolli, Dr. Satendra Pal Singh, Prof. (Dr.) Punit Goel, & Om Goel. (2020). "Machine Learning Models for Predictive Fan Engagement in Sports Events." International Journal for Research Publication and Seminar, 11(4), 280–301. https://doi.org/10.36676/jrps.v11.i4.1582
- Ashvini Byri, Satish Vadlamani, Ashish Kumar, Om Goel, Shalu Jain, & Raghav Agarwal. (2020). Optimizing Data Pipeline Performance in Modern GPU Architectures. International Journal for Research Publication and Seminar, 11(4), 302–318. https://doi.org/10.36676/jrps.v11.i4.1583
- Indra Reddy Mallela, Sneha Aravind, Vishwasrao Salunkhe, Ojaswin Tharan, Prof.(Dr) Punit Goel, & Dr Satendra Pal Singh. (2020). Explainable AI for Compliance and Regulatory Models. International Journal for Research Publication and Seminar, 11(4), 319-339. https://doi.org/10.36676/jrps.v11.i4.1584
- Sandhyarani Ganipaneni, Phanindra Kumar Kankanampati, Abhishek Tangudu, Om Goel, Pandi Kirupa Gopalakrishna, & Dr Prof.(Dr.) Arpit Jain. (2020). Innovative Uses of OData Services in Modern SAP Solutions. International Journal for Research Publication and Seminar, 11(4), 340–355. https://doi.org/10.36676/jrps.v11.i4.1585
- Saurabh Ashwinikumar Dave, Nanda Kishore Gannamneni, Bipin Gajbhiye, Raghav Agarwal, Shalu Jain, & Pandi Kirupa Gopalakrishna. (2020). Designing Resilient Multi-Tenant Architectures in Cloud Environments. International Journal for Research Publication and Seminar, 11(4), 356–373. https://doi.org/10.36676/jrps.v11.i4.1586
- Rakesh Jena, Sivaprasad Nadukuru, Swetha Singiri, Om Goel, Dr. Lalit Kumar, & Prof. (Dr.) Arpit Jain. (2020). Leveraging AWS and OCI for Optimized Cloud Database Management. International Journal for Research Publication and Seminar, 11(4), 374–389. https://doi.org/10.36676/jrps.v11.i4.1587
- Building and Deploying Microservices on Azure: Techniques and Best Practices. International Journal of Novel Research and Development, Vol.6, Issue 3, pp.34-49, March 2021. [Link] (http://www.ijnrd papers/IJNRD2103005.pdf)
- Optimizing Cloud Architectures for Better Performance: A Comparative Analysis. International Journal of Creative Research Thoughts, Vol.9, Issue 7, pp.g930-g943, July 2021. [Link](http://www.ijcrt papers/IJCRT2107756.pdf)
- Configuration and Management of Technical Objects in SAP PS: A Comprehensive Guide. The International Journal of Engineering Research, Vol.8, Issue 7, 2021. [Link] (http://tijer\_tijer/papers/TIJER2107002.pdf)
- 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. [Link] (rjpn ijcspub/viewpaperforall.php?paper=IJCSP21C1003)
- 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. [Link](rjpn ijcspub/viewpaperforall.php?paper=IJCSP21A1011)
- Kolli, R. K., Goel, E. O., & Kumar, L. (2021). Enhanced network efficiency in telecoms. International Journal of Computer Science and Programming, 11(3), Article IJCSP21C1004. [Link] (rjpn ijcspub/papers/IJCSP21C1004.pdf)
- Eeti, S., Goel, P. (Dr.), & 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. [Link](tijer tijer/viewpaperforall.php?paper=TIJER2110001)
- SHANMUKHA EETI, DR. AJAY KUMAR CHAURASIA, DR. TIKAM SINGH. (2021). Real-Time Data Processing: An Analysis of PySpark's Capabilities. IJRAR - International Journal of Research and Analytical Reviews, 8(3), pp.929-939. [Link](ijrar IJRAR21C2359.pdf)
- Mahimkar, E. S. (2021). "Predicting crime locations using big data analytics and Map-Reduce techniques," The International Journal of Engineering Research, 8(4), 11-21. TIJER
- "Analysing TV Advertising Campaign Effectiveness with Lift and Attribution Models," International Journal of Emerging Technologies and Innovative Research (JETIR), Vol.8, Issue 9, e365-e381, September 2021. [JETIR] (http://www.jetir\_papers/JETIR2109555.pdf)
- SHREYAS MAHIMKAR, LAGAN GOEL, DR.GAURI SHANKER KUSHWAHA, "Predictive Analysis of TV Program Viewership Using Random Forest Algorithms," IJRAR - International Journal of Research and Analytical Reviews (IJRAR), Volume.8, Issue 4, pp.309-322, October 2021. [IJRAR](http://www.ijrar\_IJRAR21D2523.pdf)



Vol.2 | Issue-4 | Issue Oct-Dec 2025 | ISSN: 3048-6351



Online International, Refereed, Peer-Reviewed & Indexed Journal



- "Implementing OKRs and KPIs for Successful Product Management: A Case Study Approach," International Journal of Emerging Technologies and Innovative Research (JETIR), Vol.8, Issue 10, pp.f484-f496, October 2021. [JETIR](http://www.jetir\_papers/JETIR2110567.pdf)
- Shekhar, E. S. (2021). Managing multi-cloud strategies for enterprise success: Challenges and solutions. The International Journal of Emerging Research, 8(5), a1-a8. <u>TIJER2105001.pdf</u>
- VENKATA RAMANAIAH CHINTHA, OM GOEL, DR. LALIT KUMAR, "Optimization Techniques for 5G NR Networks: KPI Improvement", International Journal of Creative Research Thoughts (IJCRT), Vol.9, Issue 9, pp.d817-d833, September 2021. Available at: <a href="https://linear.org/linear.o
- VISHESH NARENDRA PAMADI, DR. PRIYA PANDEY, OM GOEL, "Comparative Analysis of Optimization Techniques for Consistent Reads in Key-Value Stores", IJCRT, Vol.9, Issue 10, pp.d797-d813, October 2021. Available at: <a href="https://doi.org/10.21016/journal.org/10.
- Chintha, E. V. R. (2021). DevOps tools: 5G network deployment efficiency. The International Journal of Engineering Research, 8(6), 11-23. <u>TIJER2106003.pdf</u>
- Pamadi, E. V. N. (2021). Designing efficient algorithms for MapReduce: A simplified approach. TIJER, 8(7), 23-37. [View Paper](tijer/viewpaperforall.php?paper=TIJER2107003)
- Antara, E. F., Khan, S., & Goel, O. (2021). Automated monitoring and failover mechanisms in AWS: Benefits and implementation. International Journal of Computer Science and Programming, 11(3), 44-54. [View Paper](rjpn ijcspub/viewpaperforall.php?paper=IJCSP21C1005)
- Antara, F. (2021). Migrating SQL Servers to AWS RDS: Ensuring High Availability and Performance. TIJER, 8(8), a5-a18. [View Paper](tijer/viewpaperforall.php?paper=TIJER2108002)
- Chopra, E. P. (2021). Creating live dashboards for data visualization: Flask vs. React. The International Journal of Engineering Research, 8(9), a1-a12. TIJER
- Daram, S., Jain, A., & Goel, O. (2021). Containerization and orchestration: Implementing OpenShift and Docker. Innovative Research Thoughts, 7(4).
   DOI
- Chinta, U., Aggarwal, A., & Jain, S. (2021). Risk management strategies in Salesforce project delivery: A case study approach. Innovative Research Thoughts, 7(3). https://doi.org/10.36676/irt.v7.i3.1452
- UMABABU CHINTA, PROF.(DR.) PUNIT GOEL, UJJAWAL JAIN, "Optimizing Salesforce CRM for Large Enterprises: Strategies and Best Practices",
   International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.9, Issue 1, pp.4955-4968, January 2021.
   <a href="http://www.ijcrt.org/papers/IJCRT2101608.pdf">http://www.ijcrt.org/papers/IJCRT2101608.pdf</a>
- 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). <a href="https://doi.org/10.36676/irt.v07.i2.1451">https://doi.org/10.36676/irt.v07.i2.1451</a>
- Daram, S. (2021). Impact of cloud-based automation on efficiency and cost reduction: A comparative study. The International Journal of Engineering Research, 8(10), a12-a21. tijer/viewpaperforall.php?paper=TIJER2110002
- VIJAY BHASKER REDDY BHIMANAPATI, SHALU JAIN, PANDI KIRUPA GOPALAKRISHNA PANDIAN, "Mobile Application Security Best Practices
  for Fintech Applications", International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.9, Issue 2, pp.5458-5469, February
  2021. http://www.ijcrt.org/papers/IJCRT2102663.pdf
- Avancha, S., Chhapola, A., & Jain, S. (2021). Client relationship management in IT services using CRM systems. Innovative Research Thoughts, 7(1). https://doi.org/10.36676/irt.v7.i1.1450
- Srikathudu Avancha, Dr. Shakeb Khan, Er. Om Goel. (2021). "AI-Driven Service Delivery Optimization in IT: Techniques and Strategies". International Journal of Creative Research Thoughts (IJCRT), 9(3), 6496–6510. http://www.ijcrt.org/papers/IJCRT2103756.pdf
- Gajbhiye, B., Prof. (Dr.) Arpit Jain, & Er. Om Goel. (2021). "Integrating AI-Based Security into CI/CD Pipelines". IJCRT, 9(4), 6203–6215. http://www.ijcrt.org/papers/IJCRT2104743.pdf
- Dignesh Kumar Khatri, Akshun Chhapola, Shalu Jain. "AI-Enabled Applications in SAP FICO for Enhanced Reporting." International Journal of Creative Research Thoughts (IJCRT), 9(5), pp.k378-k393, May 2021. Link
- Viharika Bhimanapati, Om Goel, Dr. Mukesh Garg. "Enhancing Video Streaming Quality through Multi-Device Testing." International Journal of Creative Research Thoughts (IJCRT), 9(12), pp.f555-f572, December 2021. <u>Link</u>
- KUMAR KODYVAUR KRISHNA MURTHY, VIKHYAT GUPTA, PROF.(DR.) PUNIT GOEL. "Transforming Legacy Systems: Strategies for Successful ERP Implementations in Large Organizations." International Journal of Creative Research Thoughts (IJCRT), Volume 9, Issue 6, pp. h604-h618, June 2021. Available at: IJCRT





Online International, Refereed, Peer-Reviewed & Indexed Journal



- Dandu, Murali Mohana Krishna, Archit Joshi, Krishna Kishor Tirupati, Akshun Chhapola, Shalu Jain, and Er. Aman Shrivastav. (2022). "Quantile Regression for Delivery Promise Optimization." International Journal of Computer Science and Engineering (IJCSE) 11(1):141–164. ISSN (P): 2278–9960; ISSN (E): 2278–9979.
- Yadav, N., S. R. Bhat, H. R. Mane, Dr. P. Pandey, Dr. S. P. Singh, & Prof. (Dr.) P. Goel. (2024). Efficient Sales Order Archiving in SAP S/4HANA. IJCSE, 13(2), 199–238.
- Jaiswal, I. A., & Sharma, P. (2025). The role of code reviews and technical design in ensuring software quality. IJARESM, 13(2), 3165.
- Vanitha Sivasankaran Balasubramaniam, Santhosh Vijayabaskar, Pramod Kumar Voola, Raghav Agarwal, & Om Goel. (2022). "Improving Digital Transformation in Enterprises Through Agile Methodologies." International Journal for Research Publication and Seminar, 13(5), 507–537. https://doi.org/10.36676/jrps.v13.i5.1527.
- Balasubramaniam, Vanitha Sivasankaran, Archit Joshi, Krishna Kishor Tirupati, Akshun Chhapola, and Shalu Jain. (2022). "The Role of SAP in Streamlining Enterprise Processes: A Case Study." International Journal of General Engineering and Technology (IJGET) 11(1):9–48.
- Murali Mohana Krishna Dandu, Venudhar Rao Hajari, Jaswanth Alahari, Om Goel, Prof. (Dr.) Arpit Jain, & Dr. Alok Gupta. (2022). "Enhancing
  Ecommerce Recommenders with Dual Transformer Models." International Journal for Research Publication and Seminar, 13(5), 468–506.
  <a href="https://doi.org/10.36676/jrps.v13.i5.1526">https://doi.org/10.36676/jrps.v13.i5.1526</a>.
- Sivasankaran Balasubramaniam, Vanitha, S. P. Singh, Sivaprasad Nadukuru, Shalu Jain, Raghav Agarwal, and Alok Gupta. 2022. "Integrating Human Resources Management with IT Project Management for Better Outcomes." International Journal of Computer Science and Engineering 11(1):141–164. ISSN (P): 2278–9960; ISSN (E): 2278–9979.
- Joshi, Archit, Sivaprasad Nadukuru, Shalu Jain, Raghav Agarwal, and Om Goel. 2022. "Innovations in Package Delivery Tracking for Mobile Applications." International Journal of General Engineering and Technology 11(1):9-48.
- Tirupati, Krishna Kishor, Dasaiah Pakanati, Harshita Cherukuri, Om Goel, and Dr. Shakeb Khan. 2022. "Implementing Scalable Backend Solutions with Azure Stack and REST APIs." International Journal of General Engineering and Technology (IJGET) 11(1): 9–48. ISSN (P): 2278–9928; ISSN (E): 2278–9936.
- Biswanath Saha, Prof. (Dr.) Avneesh Kumar. (2019). Best Practices for IT Disaster Recovery Planning in Multi-Cloud Environments. Iconic Research and Engineering Journals, 2(10), 390–409.
- Voola, Pramod Kumar, Krishna Gangu, Pandi Kirupa Gopalakrishna, Punit Goel, and Arpit Jain. 2021. "AI-Driven Predictive Models in Healthcare: Reducing Time-to-Market for Clinical Applications." International Journal of Progressive Research in Engineering Management and Science 1(2):118-129. doi:10.58257/IJPREMS11.
- Salunkhe, Vishwasrao, Dasaiah Pakanati, Harshita Cherukuri, Shakeb Khan, and Arpit Jain. 2021. "The Impact of Cloud Native Technologies on Healthcare Application Scalability and Compliance." International Journal of Progressive Research in Engineering Management and Science 1(2):82-95. DOI: <a href="https://doi.org/10.58257/IJPREMS13">https://doi.org/10.58257/IJPREMS13</a>.
- Kumar Kodyvaur Krishna Murthy, Saketh Reddy Cheruku, S P Singh, and Om Goel. 2021. "Conflict Management in Cross-Functional Tech Teams: Best
  Practices and Lessons Learned from the Healthcare Sector." International Research Journal of Modernization in Engineering Technology and Science
  3(11). doi: <a href="https://doi.org/10.56726/IRJMETS16992">https://doi.org/10.56726/IRJMETS16992</a>.
- Salunkhe, Vishwasrao, Aravind Ayyagari, Aravindsundeep Musunuri, Arpit Jain, and Punit Goel. 2021. "Machine Learning in Clinical Decision Support: Applications, Challenges, and Future Directions." International Research Journal of Modernization in Engineering, Technology and Science 3(11):1493. DOI: <a href="https://doi.org/10.56726/IRJMETS16993">https://doi.org/10.56726/IRJMETS16993</a>.
- Agrawal, Shashwat, Pattabi Rama Rao Thumati, Pavan Kanchi, Shalu Jain, and Raghav Agarwal. 2021. "The Role of Technology in Enhancing Supplier Relationships." International Journal of Progressive Research in Engineering Management and Science 1(2):96-106. doi:10.58257/IJPREMS14.
- Mahadik, Siddhey, Raja Kumar Kolli, Shanmukha Eeti, Punit Goel, and Arpit Jain. 2021. "Scaling Startups through Effective Product Management."
   International Journal of Progressive Research in Engineering Management and Science 1(2):68-81. doi:10.58257/IJPREMS15.
- Mahadik, Siddhey, Krishna Gangu, Pandi Kirupa Gopalakrishna, Punit Goel, and S. P. Singh. 2021. "Innovations in AI-Driven Product Management."
   International Research Journal of Modernization in Engineering, Technology and Science 3(11):1476. <a href="https://doi.org/10.56726/IRJMETS16994">https://doi.org/10.56726/IRJMETS16994</a>.
- Agrawal, Shashwat, Abhishek Tangudu, Chandrasekhara Mokkapati, Dr. Shakeb Khan, and Dr. S. P. Singh. 2021. "Implementing Agile Methodologies
  in Supply Chain Management." International Research Journal of Modernization in Engineering, Technology and Science 3(11):1545. doi:
   https://www.doi.org/10.56726/IRJMETS16989.







Arulkumaran, Rahul, Shreyas Mahimkar, Sumit Shekhar, Aayush Jain, and Arpit Jain. 2021. "Analyzing Information Asymmetry in Financial Markets
Using Machine Learning." International Journal of Progressive Research in Engineering Management and Science 1(2):53-67.
doi:10.58257/IJPREMS16.

Online International, Refereed, Peer-Reviewed & Indexed Journal

- Arulkumaran, Dasaiah Pakanati, Harshita Cherukuri, Shakeb Khan, and Arpit Jain. 2021. "Gamefi Integration Strategies for Omnichain NFT Projects."
   International Research Journal of Modernization in Engineering, Technology and Science 3(11). doi: <a href="https://www.doi.org/10.56726/IRJMETS16995">https://www.doi.org/10.56726/IRJMETS16995</a>.
- Agarwal, Nishit, Dheerender Thakur, Kodamasimham Krishna, Punit Goel, and S. P. Singh. (2021). "LLMS for Data Analysis and Client Interaction in MedTech." International Journal of Progressive Research in Engineering Management and Science (IJPREMS) 1(2):33-52. DOI: https://www.doi.org/10.58257/IJPREMS17.
- Agarwal, Nishit, Umababu Chinta, Vijay Bhasker Reddy Bhimanapati, Shubham Jain, and Shalu Jain. (2021). "EEG Based Focus Estimation Model for Wearable Devices." International Research Journal of Modernization in Engineering, Technology and Science 3(11):1436. doi: https://doi.org/10.56726/IRJMETS16996.
- Dandu, Murali Mohana Krishna, Swetha Singiri, Sivaprasad Nadukuru, Shalu Jain, Raghav Agarwal, and S. P. Singh. (2021). "Unsupervised Information
  Extraction with BERT." International Journal of Research in Modern Engineering and Emerging Technology (IJRMEET) 9(12): 1.
- Dandu, Murali Mohana Krishna, Pattabi Rama Rao Thumati, Pavan Kanchi, Raghav Agarwal, Om Goel, and Er. Aman Shrivastav. (2021). "Scalable Recommender Systems with Generative AI." International Research Journal of Modernization in Engineering, Technology and Science 3(11):1557. https://doi.org/10.56726/IRJMETS17269.
- Sivasankaran, Vanitha, Balasubramaniam, Dasaiah Pakanati, Harshita Cherukuri, Om Goel, Shakeb Khan, and Aman Shrivastav. 2021. "Enhancing
  Customer Experience Through Digital Transformation Projects." International Journal of Research in Modern Engineering and Emerging Technology
  (IJRMEET) 9(12):20. Retrieved September 27, 2024 (<a href="https://www.ijrmeet.org">https://www.ijrmeet.org</a>).
- Balasubramaniam, Vanitha Sivasankaran, Raja Kumar Kolli, Shanmukha Eeti, Punit Goel, Arpit Jain, and Aman Shrivastav. 2021. "Using Data Analytics
  for Improved Sales and Revenue Tracking in Cloud Services." International Research Journal of Modernization in Engineering, Technology and Science
  3(11):1608. doi:10.56726/IRJMETS17274.
- Joshi, Archit, Pattabi Rama Rao Thumati, Pavan Kanchi, Raghav Agarwal, Om Goel, and Dr. Alok Gupta. 2021. "Building Scalable Android Frameworks
  for Interactive Messaging." International Journal of Research in Modern Engineering and Emerging Technology (IJRMEET) 9(12):49. Retrieved from
  www.ijrmeet.org.
- Joshi, Archit, Shreyas Mahimkar, Sumit Shekhar, Om Goel, Arpit Jain, and Aman Shrivastav. 2021. "Deep Linking and User Engagement Enhancing Mobile App Features." International Research Journal of Modernization in Engineering, Technology, and Science 3(11): Article 1624. https://doi.org/10.56726/IRJMETS17273.
- Tirupati, Krishna Kishor, Raja Kumar Kolli, Shanmukha Eeti, Punit Goel, Arpit Jain, and S. P. Singh. 2021. "Enhancing System Efficiency Through PowerShell and Bash Scripting in Azure Environments." International Journal of Research in Modern Engineering and Emerging Technology (IJRMEET) 9(12):77. Retrieved from <a href="http://www.ijrmeet.org">http://www.ijrmeet.org</a>.
- Tirupati, Krishna Kishor, Venkata Ramanaiah Chintha, Vishesh Narendra Pamadi, Prof. Dr. Punit Goel, Vikhyat Gupta, and Er. Aman Shrivastav. 2021.
   "Cloud Based Predictive Modeling for Business Applications Using Azure." International Research Journal of Modernization in Engineering, Technology and Science 3(11):1575. https://www.doi.org/10.56726/IR.JMETS17271.
- Nadukuru, Sivaprasad, Fnu Antara, Pronoy Chopra, A. Renuka, Om Goel, and Er. Aman Shrivastav. 2021. "Agile Methodologies in Global SAP Implementations: A Case Study Approach." International Research Journal of Modernization in Engineering Technology and Science 3(11). DOI: https://www.doi.org/10.56726/IRJMETS17272.
- Nadukuru, Sivaprasad, Shreyas Mahimkar, Sumit Shekhar, Om Goel, Prof. (Dr) Arpit Jain, and Prof. (Dr) Punit Goel. 2021. "Integration of SAP Modules
  for Efficient Logistics and Materials Management." International Journal of Research in Modern Engineering and Emerging Technology (IJRMEET)
  9(12):96. Retrieved from <a href="http://www.ijrmeet.org">http://www.ijrmeet.org</a>.
- Rajas Paresh Kshirsagar, Raja Kumar Kolli, Chandrasekhara Mokkapati, Om Goel, Dr. Shakeb Khan, & Prof.(Dr.) Arpit Jain. (2021). Wireframing Best Practices for Product Managers in Ad Tech. Universal Research Reports, 8(4), 210–229. <a href="https://doi.org/10.36676/urr.v8.i4.1387">https://doi.org/10.36676/urr.v8.i4.1387</a> Phanindra Kumar Kankanampati, Rahul Arulkumaran, Shreyas Mahimkar, Aayush Jain, Dr. Shakeb Khan, & Prof.(Dr.) Arpit Jain. (2021). Effective Data Migration Strategies for Procurement Systems in SAP Ariba. Universal Research Reports, 8(4), 250–267. <a href="https://doi.org/10.36676/urr.v8.i4.1389">https://doi.org/10.36676/urr.v8.i4.1389</a>





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- Nanda Kishore Gannamneni, Jaswanth Alahari, Aravind Ayyagari, Prof.(Dr) Punit Goel, Prof.(Dr.) Arpit Jain, & Aman Shrivastav. (2021). Integrating
  SAP SD with Third-Party Applications for Enhanced EDI and IDOC Communication. Universal Research Reports, 8(4), 156–168.
  <a href="https://doi.org/10.36676/urr.v8.i4.1384">https://doi.org/10.36676/urr.v8.i4.1384</a>
- Satish Vadlamani, Siddhey Mahadik, Shanmukha Eeti, Om Goel, Shalu Jain, & Raghav Agarwal. (2021). Database Performance Optimization
  Techniques for Large-Scale Teradata Systems. Universal Research Reports, 8(4), 192–209. <a href="https://doi.org/10.36676/urr.v8.i4.1386">https://doi.org/10.36676/urr.v8.i4.1386</a>
- Nanda Kishore Gannamneni, Jaswanth Alahari, Aravind Ayyagari, Prof. (Dr.) Punit Goel, Prof. (Dr.) Arpit Jain, & Aman Shrivastav. (2021).
   "Integrating SAP SD with Third-Party Applications for Enhanced EDI and IDOC Communication." Universal Research Reports, 8(4), 156–168. <a href="https://doi.org/10.36676/urr.v8.i4.1384">https://doi.org/10.36676/urr.v8.i4.1384</a>
- Tiwari, S., & Mishra, R. (2023). AI and behavioural biometrics in real-time identity verification. IJARESM, 11(8), 2149.