

Manikanta Gajarao

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PROFESSIONAL SUMMARY

Senior Data Engineer with 4+ years of experience adept at designing and implementing robust data pipelines and optimizing data architecture for seamless integration and analysis. Skilled in Data Analysis with a proven track record of extracting actionable insights from complex datasets using PowerBI, and Tableau and driving data-driven decision-making. Proficient in utilizing advanced analytics tools and techniques to uncover patterns and trends, enhancing organizational efficiency and performance.

EDUCATION

Georgia State University

Masters in Computer Science

GPA- 4.0/4.0

Koneru Lakshmaiah Educational Foundation, Guntur, India

Bachelor of Technology in Computer Science and Engineering

GPA:3.8/4.0

TECHNICAL SKILLS

Programming Languages: Java, R Language, Python, C, C#

Frameworks: Spring Framework, Spring Boot, .NET, Junit, Bootstrap, Maven, Gradle

Web Development: JavaScript, HTML, CSS, WordPress, AEM (ECM)

Tools: SSIS, SSAS, SAS, GIT, Bitbucket, JIRA, Splunk, Confluence, Docker, SSIS, Postman, Swagger, Excel, ServiceNow

Cloud-Technologies: GCP, AWS S3, EC2, RedShift, Lambda, Databricks, Azure

Databases: MYSQL, SQL, PostgreSQL, IBM-DB2, Oracle

Machine Learning: LLM, Decision Tree, Random Forest, XG Boost, Light GBM, K-Means, Support Vector Machine, Regression

Data Visualization: Tableau, Power BI, Looker Studio, QlikSense, Google Sheets

EXPERIENCE

Georgia State University

Atlanta, GA

Graduate Research Assistant (Healthcare Department)

August 2022- April 2024

- Utilized HTML, CSS, and JavaScript to develop and maintain web applications, ensuring seamless functionality and user experience, and managed DNS and SSL configurations, ensuring website security and reliability.
- Proficiently utilized Web CMS platforms to update and manage website content, ensuring accuracy and relevance.
- Leveraged MS Office Suite and Collaboration tools, including Excel, PowerPoint, Teams, and SharePoint, to develop sophisticated spreadsheets, presentations, and collaborative workflows.
- Led teams effectively, utilizing excellent problem-solving and time leadership skills to drive project success.
- Developing and maintaining web applications, APIs, and services using .NET technologies such as ASP.NET and C#.
- Implementing best practices for .NET development, including code optimization, security measures, and scalability.
- Following Agile/SAFe principles and practices to ensure continuous improvement and adaptability. Contributing to the refinement of backlog items, estimation, and sprint goals.
- Played a key role in the adaptation of large language models, PyTorch, tensorflow for legal document analysis, streamlining the document review process and increasing the accuracy of information extraction by **15%**. Collaborated with legal experts to tailor models to domain-specific language nuances, resulting in improved efficiency in a high-volume document processing environment.
- Provisioning and configuring AWS cloud services such as EC2, S3, Lambda, and RDS to support application development and deployment. Ensuring the security, availability, and scalability of AWS resources through best practices and monitoring tools.

ADP (Automatic Data Processing)

Alpharetta, Atlanta

Application Developer Intern

May 2023- August 2023

- Worked on the removal of deprecated APIs leading to reduced project build size resulting in faster deployments decreasing from **34 to 22 minutes** which is about **30%** of time saved per deployment.
- Created Postman collections for penetration testing for all API endpoints and integrated them into CI/CD pipelines to automate API testing for deployment.
- Resolved SonarQube's Top Issues to improve the efficiency of the code by around **12%** which led to a positive impact on performance. Written JUnit Test cases for payroll-related APIs lead to an increase in test coverage by **18%**.
- Leveraged AWS (Amazon Redshift, Amazon S3, AWS Glue) for scalable data architectures, storage, processing, and

analysis.

- Automated data workflows with AWS Step Functions, Lambda, and Batch. Managed complex software applications with Jira and Git.
- Customization of Swagger for API endpoints led to developer experience of API by providing sample values of all fields. Created a custom Recipe for the removal of logging **if** conditional statements to improve the source lines of code in the entire project for easier log-level management during deployment and production, leading to performance improvements.

Cognizant Technology Solutions

Data Analyst

Client: Walmart

December 2019- July 2022

- Designed and implemented SSIS packages for extraction, transformation, and loading (ETL) of data, contributing to efficient data integration and enhanced data quality resulting in improved scalability and performance.
 - Authored and implemented stored procedures to analyze performance metrics of reports across five countries. Effectively scheduled and managed the ETL process, resulting in **12 to 14-minute** time savings for employees.
 - Successfully optimized query performance of existing stored procedures, reducing execution time from **42 to 27 minutes** by gaining a comprehensive understanding of the relationship between all 80 tables in the database.
 - Developed comprehensive reports and designed, built, and tested Walmart sales dashboards for effective data visualization.
 - Conceptualized and executed standardized Tableau dashboards providing visualizations for tracking key performance indicators (KPIs) and trends resulting in a notable **23%** improvement in operational performance.
 - Maintain the data of all Walmart sale records and make the visualization dashboards lead to tracking progress.
 - Conducted ad-hoc analysis to detect anomalies, identify trends, and provide actionable insights to senior management.
 - Proficient in crafting DAX formulas to create calculated fields to support KPI metrics and data-driven decision-making.
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PROJECTS

HR Dashboard Insights

Domain: SQL, Power BI, AWS

Utilized SQL databases to gather and organize HR data efficiently. Developed a visually appealing and user-friendly HR Dashboard using Power BI. Integrated real-time data updates for immediate insights into key HR metrics. Streamlined HR processes by providing actionable insights and visualizations. Leveraged AWS for robust and scalable data storage and processing capabilities.

Harassment Detection

Algorithms: Random Forest, Logistic Regression, XGB, and LightGBM classifiers

Leveraged cutting-edge Natural Language Processing (NLP) techniques to develop advanced algorithms including Random Forest, Logistic Regression, XGBoost (XGB), and LightGBM classifiers. These models were specifically engineered to automatically classify and aggregate vast volumes of harassment data prevalent on social media platforms. By employing both single-label and multi-label classification methodologies, I can effectively categorize instances of harassment with high accuracy. This approach empowered me to analyze patterns and trends in online harassment, enabling proactive measures for addressing and mitigating such behaviors.

Get Alumni Back

Domain: SQL, Tableau, Azure Databricks

Implemented a centralized SQL database system to store and manage alumni information. Integrated Tableau dashboards for data visualization and analysis. Utilized Azure Databricks for efficient data processing and analytics. Enhanced communication and engagement with corporate supporters to secure funding for the university. Empowered stakeholders with actionable insights to improve alumni relations and fundraising efforts.

Fake Profile Identification

Domain: Machine Learning (Statistical Modelling), Datacap

Employed statistical modeling techniques within the realm of machine learning to classify Facebook user profiles as either genuine or fake. Utilizing data extracted from PDFs via Datacap, I implemented classification algorithms including Support Vector Machines, Decision Trees, and Random Forests. These methods enable accurate identification of fraudulent profiles based on various features and patterns present in the data. By leveraging statistical modeling, I enhanced the accuracy and efficiency of the classification process, contributing to improved security and trustworthiness within the social media

HONORS & CERTIFICATIONS

Career Essentials in Data Analysis by **Microsoft**

SQL Server Integration Services

2nd Position in ServiceNow Hackathon