

Mounika Jaggampudi

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TECHINICAL SKILLS

Programming Languages: C, C++, Python, Oops, JavaScript, JAVA, SAS, GO, Ruby

IDE / Version Control: PyCharm's, Eclipse, GIT, GIT Hub, Jenkins, JIRA

Framework: Spark, Node.js, Spring.

Data Bases / NoSQL: HBase, MongoDB, Oracle, AWS, SQL, PL-SQL RedShift, RDS, EMR, Lambda

Technologies: Hadoop technologies, Cloud platforms, REACT, Spring Boot,

Visualization Tools: Power BI, Tableau, R Studios, MS Excel, VLOOKUP, SAS Visual Analytics

EDUCATION

George Mason University

- Master of Science in Data Analytics Engineering. –GPA

Fairfax, Virginia

Aug2022--May2024

Gandhi Institute of Technology and Management

- Bachelor of Technology in Computer Science Engineering. –GPA

Andhra Pradesh, India

Jun-2016--May2020

EXPERIENCE

Human Cyber Performance, LLC

Alexandria, VA

Data Analyst

Jan 2024 – May 2024

Responsibilities:

- Cleaned, Pre-Processed and Transformed a dataset consisting of 75 variables using of visualization team increasing performance by 80% in accuracy.
- Excelled in analyzing business requirements, developing technical specifications, and implementing robust solutions to align with strategic objectives.
- Wrote Hive Jobs to perform ETL into HDFS.
- Performed batch data import to Mongo DB using Spring JDBC API. Configured the clusters and debugged issues on data imports which optimized time delay by 50%.
- Delivered accurate reports and dashboards using SQL, Tableau, and Power BI.
- Designed and maintained databases with advanced queries, ensuring consistent data quality.
- Migrated data building pipelines from On-premises SQL servers to AWS S3.
- Used GIT to solve version conflicts in the code base for performing data ingestion and transformations.

Environment: Python, AWS, Sparks, PySpark, HDFS, My-SQL, SQL, Mongo DB, AWS S3, HIVE, jira, Tableau, Spring, API, GIT.

Cognizant service Technologies

Hyderabad, India

Data Analyst

Aug2020-july2022

- Contributed to cross-functional teams using Agile methodologies, enhancing collaboration and driving efficient project completion.
- Extracted, compiled, and tracked data, and analyzed data to generate reports
- Participated with troubleshooting, and problem resolution efforts
- Performed daily data manipulation using SQL and prepared reports on a weekly, monthly, and quarterly basis.
- Used Excel functions to generate spreadsheets and pivot tables
- Identified, analyze, and interpret trends or patterns in complex data sets
- Performed data validation, cleansing, and blending to ensure integrity and accuracy.
- Cleansing and blending multiple data sources to allow for different views on application data in a single dashboard
- An aided team in data collection to be used for Tableau visuals
- Conducted presentations to other lines of business as a meta role to show the value of Tableau as a BI tool
- Perform data manipulation operations like import/export data from various external file formats using SQL
- Generated a variety of business reports from SQL server using excel with a pivot table and pivot chart
- Develop and implement databases, data collection systems, data analytics, and other strategies that optimize statistical efficiency and quality
- Checked for invalid/out of range data
- Streamlined workflows and improved efficiency through Agile practices and technical documentation.
- Perform data manipulation operations like import/export data from various external file formats using SSIS
- Implemented and managed EDI transactions for healthcare clients, enhancing the electronic exchange of data

related to patient records, billing, and insurance claims to streamline operations and improve compliance with regulatory standards.

- Reduced delays by 50% through optimized ETL pipelines and migration processes.
- experienced in handling EDI Claims.

Environment: HTML, CSS,python,sql React, Spring, Oracle, Git, JAVA, Spring Boot, SSIS,Java,Java Script,Jira

Genpact:

Hyderabad

Data Analyst Intern

March2019-Feb2020

- Conducted extensive data preprocessing and analysis on over 1.5 million records in Azure Data Lake, achieving a 94% classification model accuracy.
- Delivered actionable business insights through advanced data analysis, contributing to strategic decision-making.
- Implemented A/B testing to optimize supply chain strategies, resulting in a 15% improvement in resource allocation.
- Collaborated with Agile teams to enhance project delivery, improving timelines by 20%.

ACADEMIC PROJECTS

1. CREDIT CARD ELIGIBILITY:

- Development of an advanced predictive model to enhance credit card eligibility assessment, leveraging Big Data analytics tools within Databricks, PySpark, and MLlib.and programming language python
- Implemented diverse machine learning algorithms such as logistic regression, decision trees, and random forests, significantly boosting the efficiency and reliability of the credit approval process.
- Created impactful visual representations of complex data analytics using Power BI, which helped stakeholders make more informed decisions and highlighted the tangible business benefits of the implemented model

2. DATABASE MANAGEMENT SYSTEM FOR A PUBLIC LIBRARY:

- Directed a major database design initiative for public library systems, focusing on enhancing operational efficiency and user experience.
- Developed and optimized an Entity-Relationship diagram, achieving robust data organization and maintaining integrity through normalization up to 3NF
- Crafted and executed advanced SQL queries to facilitate efficient data manipulation and streamline library administrative processes.
- Innovated key database features, such as automated alerts for overdue items and dynamic membership status updates, significantly improving service quality and workflow management.

3. LLM BEHAVIOURAL PATTERN OF TEXT OUTPUT:

- Spearheaded a groundbreaking research initiative focused on understanding behavior patterns in Large Language Models (LLMs), such as ChatGPT, with a special emphasis on hallucinations and response consistency.
- Applied advanced web scraping and Natural Language Processing (NLP) techniques to meticulously collect and analyze LLM responses, assessing their reliability and consistency.
- Crafted and implemented prompt engineering strategies to amass a comprehensive dataset, establishing robust evaluation methods to pinpoint specific behavior patterns in LLMs.
- Leveraged Tableau to create dynamic, interactive dashboards and reports, providing stakeholders with a clear visual understanding of LLM behaviors, thereby facilitating real-time data interpretation and decision-making.