VISHAL REDDY MUSKU

Norman, Oklahoma

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EDUCATION

University of Oklahoma   **01 2023 – 12 2024**
Master of Science in Management of Information and Technology - 4.0 - GPA   *Norman, OK*

JB Insititute of Engineering and Technology   **08 2016 – 10 2020**
Bachelor of Technology in Computer Science and Engineering - 3.26 - GPA   *Hyderabad, India*

EXPERIENCE

University of Oklahoma   **01 2024 – 09 2024**
Research Assistant | Python, Open AI, Gemini Pro, Streamlit, Tableau   *Norman, OK*
- Built large language model applications, including a web app using the OpenAI Turbo 3.5 API to process corporate reports. The application efficiently handles documents over 100 pages, extracting data with 88% accuracy and reducing manual processing time by 90%.
- Worked on multiple data analysis projects, including U.S. Awards data, handling data collection via API, data preparation, and creating interactive dashboards to drive business decisions using Python and Tableau.
- Architected solutions and developed scripts to automate web-scraping processes, significantly reducing manual workload and improving data acquisition efficiency.

Teaching Assistant   **08 2023 – 12 2023**
Application Development Associate | C#, Java Script, HTML, CSS, R, Tableau   *Hyderabad, India*
- Guided 80 students in building full-stack applications with C, SQL, and web technologies, using MVC frameworks to create scalable solutions.
- Instructed 40 students on creating interactive, real-time dashboards with R Server, improving their data-driven decision-making skills.
- Simplified complex technical concepts to enhance student understanding and project success rates.

Accenture   **02 2021 – 12 2022**
Application Development Associate | Python, SAP DI   *Hyderabad, India*
- Orchestrated ETL processes using SAP Data Intelligence and ABAP connector, ensuring seamless extraction from SLT server.
- Built and optimized pipelines for data extraction, transformation, and loading into AWS S3, prioritizing efficiency and accuracy by reducing the jobs failure by almost over 70%.
- Implemented SQL-based data validation across all ETL layers, achieving 100% data accuracy and integrity.

PROJECTS

Diabetes disease prediction ⧉ **| Python, Weka**   **03 2023**
- Applied over 4 data mining methods including Decision Trees, Logistic Regression, Association Rules, and Clustering for diabetes indicator identification.
- Utilized Python for data analysis and machine learning model development by identifying most determining attributes by reducing the attributes size from 22 to 5, increasing the efficiency by over 300% .
- Achieved an 86% accuracy rate in predicting diabetes, showcasing strong analytical and modeling skills.
- Contributed to advancing predictive healthcare analytics through data-driven insights and model development.

Sea World data analysis ⧉ **| MS Excel**   **05 2023**
- Utilized MS Excel to conduct comprehensive data analysis for Sea World, employing 9 analytical methods including key metric analysis, comparison, trend analysis, ranking, and Pareto analysis.
- Leveraged analytical insights to address key business questions and drive revenue improvement strategies for Sea World.
- Demonstrated proficiency in Excel data analysis techniques, contributing to informed decision-making and business growth initiatives at Sea World by narrowing down the areas to focus upon by reducing the time from 5 days to 1 day.

Spotify popular songs data analysis ⧉ **| R studio**   **12 2023**
- Employed R Studio for in-depth data analysis of Spotify's popular songs dataset, aiming to discern the factors influencing a song's placement in the top charts.
- Utilized statistical methods and data visualization techniques in R to identify patterns and correlations within the dataset.
- Contributed to understanding the dynamics of music popularity through rigorous analysis, providing insights valuable for music industry stakeholders and aspiring artists alike.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, HTML, CSS, R.
Developer Tools: VS Code, Pycharm, DataGrip, Visual Studio, R studio, Knime.
Technologies/Frameworks: Linux, GitHub.