Vishal Orsu

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SUMMARY

Results-driven data analyst with expertise in SQL, Python, R, Power BI, and Tableau. Experienced in developing predictive models, designing dashboards, and optimizing data pipelines. Skilled in gathering requirements, creating user stories, and facilitating UAT. Proven ability to deliver actionable insights, streamline processes, and collaborate with cross-functional teams to achieve business goals.

PROFESSIONAL EXPERIENCE

GMU Center for Air Transportation Systems Research (CATSR)   **August 2024– December 2024**
Data Analyst

- Collaborated with stakeholders to gather requirements and translate them into actionable tasks for project teams.
- Developed a public-facing dashboard integrating financial and operational data from the U.S. Department of Transportation's Form 41.
- Built predictive models (ARIMA, LSTM) to analyze trends and forecast airline stock performance, achieving 85% accuracy.
- Established detailed documentation of business requirements and processes for model deployment and stakeholder presentation.
- Conducted expert interviews to refine modeling approaches, aligning project outcomes with industry best practices.
- Validated sprint deliverables to ensure alignment with project requirements.
- Leveraged Azure DevOps for task tracking and backlog grooming.
- Served as a tester for validation and facilitated UAT scenarios.

AVV DEVELOPERS   **May 2021 – December 2022**
Business data Analyst

- Gathered and documented business requirements for 3+ construction projects, ensuring alignment with business goals.
- Developed Power BI and Tableau dashboards, delivering actionable insights for project decision-making.
- Generated 25+ custom measures and advanced DAX calculations in Power BI for tailored property and project reporting.
- Optimized SQL queries and streamlined ETL processes, improving data retrieval times by 30%.
- Facilitated discussions with stakeholders to refine requirements and resolve discrepancies.

PROJECTS

Credit Card Fraud Detection Enhancement, *Dr Lindi Liao*

- Enhanced fraud detection by integrating geospatial analysis, identifying high-risk regions, and reducing false positives by 25%.
- Utilized Azure Databricks and Spark (PySpark) for data processing, achieving a 20% faster model training time.
- Documented system requirements and test cases for stakeholder review and implementation.
- Delivered targeted anti-fraud strategies for financial institutions, strengthening regional security protocols.

SpaceX Falcon 9 First Stage Landing Prediction, *Capstone Project*

- Collaborated with a cross-functional Agile team to predict the successful landing of SpaceX Falcon 9's first stage.
- Documented acceptance criteria, mockups, and system requirements to support development and testing.
- Initiated detailed test cases for validation and performed analyses to ensure results aligned with project goals.

SKILLS

- **Programming Languages:** Python, R, SQL, Java, C++, C
- **Databases:** PostgreSQL, RDBMS, Redshift, MySQL
- **Statistical Software:** Stata, SPSS, SAS
- **Data Visualization Tools:** Power BI, Tableau, RStudio, Plotly, Matplotlib, Seaborn, ggplot2
- **Project Management Tools:** Azure DevOps, Jira, SharePoint, Microsoft Teams
- **Cloud Platforms:** Databricks, AWS S3, Snowflake
- **Frameworks and Libraries:** TensorFlow, Keras, scikit-learn, Pandas, Apache Spark, PySpark
- **Documentation Tools:** Microsoft Word, Visio, Excel, PowerPoint
- **Soft Skills:** Clear communication, active listening, critical thinking, cross-functional collaboration

LEADERSHIP AND VOLUNTEERING EXPERIENCE

Street Cause, Coordinator, Hyderabad, India   **August 2019 – May 2022**

- Served with Telangana's largest student-run NGO as part of the Vasavi Division's social impact team, impacting 300+ underprivileged students through educational programs.

EDUCATION

GEORGE MASON UNIVERSITY   **January 2023-December 2024**
Master of Science in Data Analytics Engineering   GPA 3.90