VEDANT MOHURLEY

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EDUCATION

Master of Science in Information Systems, *University of Maryland-Baltimore County, Baltimore MD*   *May 2024*
Relevant Coursework: Data Analytics, Business Intelligence, Advanced Databases

Bachelor of Engineering in Computer Science Engineering, *GH Raisoni College of Engineering, India*   *Jun 2022*

SKILLS

Data Analysis: Python (Pandas, NumPy, SciPy, Matplotlib), SQL,PL/SQL, R, EDA, SAS, Machine Learning, Statistical Analysis, Predictive Modelling, Credit Risk Modelling
Advance Analytics: Regression Analysis, Trend Analysis, Customer Segmentation, Hypothesis Testing, Segmentation
Data Mining/Warehousing Tools: SAS, Weka, Apache Hadoop, MS Azure
Data Visualization: Power BI, Tableau, ETL Pipelines, Excel (Pivot Table, VLOOKUP, Conditional Formatting)
Project Management: Project Libre, Lucid Chart, GitHub, Agile, Jira, Cross-functional Collaboration
Coursework: Advance Database Projects, Data Mining and Warehousing, Data Analytics, Business Intelligence, Object Oriented Programming, Data Analytics in Cybersecurity

PROFESSIONAL EXPERIENCE

Research Analyst, *University of Maryland Baltimore County, USA*   *Aug 2024 – Present*
- Developing the evaluation metrics using R and Python, enhancing cloud service assessment accuracy by 15%, and communicated findings to stakeholders in clear and actionable formats.
- Achieved a 25% reduction in data gathering time by integrating APIs across Google Cloud and Azure and continued to improve cross-platform compatibility.
- Manage a 15GB SQL database, optimizing performance to achieve 15% faster query response times and enable robust data analysis.
- Conducted qualitative and quantitative analysis to assess the impact of cloud computing on organizational roles.

Data Analyst Intern, *Bit Hub Technology, India*   *Jun 2023 – Aug 2023*
- Improved data quality and project monitoring by implementing SQL querying and Python-based data collection improvements, resulting in a 20% enhancement, and contributing to Power BI dashboard maintenance.
- Facilitated machine learning model development for routine data analysis, improving consumer behavior predictions by 25%.
- Utilized Machine Learning and Python for fraud detection, identifying anomalies in insurance transactions.

Software Engineer Intern, *Indiba Business Solutions Limited, Pune, India*   *Dec 2021- Jun 2022*
- Enhanced system efficiencies by optimizing ERP software and database management, supporting over 20,000 clients, and ensuring high data integrity and security.
- Implemented a backend database for a CRM website, managing data for over 20,000 insurance clients.
- Ensured zero-defect delivery in web design projects by resolving UI issues and collaborating with cross-functional teams to prevent potential fraud affecting over 20,000 insurance clients.

PROJECTS

Inventory Management System | *Python, SQL, Power BI*   *Aug 2024 – Present*
- Gathered historical inventory, sales, delivery data, and established an SQL database to store and manage the data.
- Cleaned, preprocessed, and analyzed the data using Python, and generated forecasting models predicting future inventory needs with 85% accuracy.
- Created Power BI dashboards to visualize inventory levels, low-stock alerts, and future projections.

Customer Sales Analysis Dashboard | *Tableau*   *Jan 2024 – Mar 2024*
- Engineered interactive Tableau visualizations to analyze sales trends, customer segmentation, and product performance, resulting in a 20% increase in sales by identifying high-value customer segments.
- Implemented key performance indicators (KPIs) such as revenue, customer lifetime value, and conversion rate to measure sales effectiveness and identify areas for improvement.

Credit Card Fraud Detection using Machine Learning | *Python, Regression Algorithms, EDA*   *Aug 2023 - Dec 2023*
- Addressed imbalanced datasets by performing data cleaning, handling outliers, normalization, and improving model performance by 30%.
- Designed and executed an efficient model implementation flowchart, enhancing predictive accuracy by 8%.
- Developed a logistic regression model to detect fraud, achieving 94% accuracy and significantly reducing false positives through meticulous data preparation and model tuning.

911 Crime Data Analysis and Visualization | Python, *MS Excel, Tableau*   *Jan 2023 - May 2023*
- Conducted crime type and temporal analysis using Python and Tableau, delivering actionable insights through dashboards, aiding public safety decision-making with 80% accuracy.
- Performed temporal and spatial analysis of crime data to identify patterns and trends.
- Developed an interactive Tableau dashboard to visualize temporal and geographical crime patterns and identify peak crime times and locations enabling making informed decisions with 80% accuracy.

CERTIFICATIONS

Microsoft Certified in **Azure Enterprise Data Analyst Associate**   *Aug 2023*
Microsoft Certified in **Azure AI Fundamentals**   *Aug 2023*