Swapnil Mungi

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PROFESSIONAL SUMMARY

Data Analyst with 3 years in advanced analytics and reporting, skilled at uncovering insights, innovative at problem solving, and attention to detail. Experienced in cross-functional collaboration, with strong written and verbal communications skills, providing analytical solutions and recommendations to stakeholders through presentations for decision-making strategy.

PROFESSIONAL EXPERIENCE

***Data Analyst – Graduate Assistant* | The University of Texas at Dallas, Dallas, TX** **Aug 2023 – May 2024**

- Crafted optimized SQL queries for batch integration of multiple large datasets (100k+ rows) into Power BI, automating daily data refreshes and reducing manual reporting hours by 25%.
- Implemented Row-Level Security (RLS) in Power BI to restrict data access, securing sensitive academic information and reducing unauthorized access incidents by 20%, while enabling tailored insights for different user roles.
- Utilized M code for data transformation and validation on student submission, exam, and attendance data, reducing discrepancies by 10% and ensuring accurate reporting for academic performance analysis and decision-making.

***Data Analyst* | Accenture, Pune, India** **Oct 2019 – Aug 2021**

- Designed interactive dashboards using Power BI for a healthcare client, providing region-specific sales trends, which enabled executives to build informed business strategies and target high-growth regions, driving a 5% sales growth.
- Conducted financial and cost-benefit analysis of preventive maintenance plans for medical equipment in Excel, leveraging metrics like failure rates and service costs to recommend optimized offerings, boosting attach rates by 5%.
- Leveraged advanced SQL to analyze response times and failure rates in medical equipment work orders, identifying high-frequency issues and implementing quality checks that reduced repeat visits by 10%.
- Improved medical equipment data quality by 10% by scripting in Python for data cleaning, imputation and outlier detection, enabling reliable analysis for proactive maintenance of high-risk equipment.
- Collaborated with cross-functional IT and product teams, monitoring and maintaining data quality to ensure compliance with privacy policies, leading to a 10% reduction in data accessibility and scalability issues.

PROJECTS

CO2 Emissions Forecasting from Electricity Generation | Sustainability **Feb 2024 – May 2024**

- Developed a CO2 emission forecasting model using Seasonal ARIMA, achieving an RMSE of 3.79 for 10-year predictions.
- Preprocessed data, handling 98% of missing values and outliers, improving model accuracy by 15%.

Prediction of Readmission Probability for Diabetes Patients | Healthcare **Sep 2023 – Jan 2024**

- Analyzed a comprehensive healthcare dataset of 74 million visits from 17 million patients across 130 hospitals over 10 years, focusing on diabetic patient readmissions.
- Engineered supervised models (Logistic Regression, Random Forest) and performed data analysis achieving 87% accuracy in predicting 30-day readmissions for diabetic patients.

Credit Card Fraud Detection for Bank Transactions | Finance **May 2023 – Aug 2023**

- Created a fraud detection model with 99.8% accuracy to determine the authenticity of 100,000 credit card transactions
- Developed a robust pipeline implementing SMOTE for data imbalance handling and GridSearchCV for hyperparameter tuning, resulting in a 10% performance improvement.

HR Analytics Dashboard for Corporate Workforce Attrition | People Analytics **Jan 2023 – May 2023**

- Used Tableau to create a people analytics dashboard, tracking attendance trends for 500+ employees.
- Applied Tableau Calculated Fields to extract and calculate key performance indicators(kpi), including attrition rates, while leveraging Tableau Prep for efficient data transformation; improved reporting accuracy by 30%.

SKILLS

Programming: Python (NumPy, pandas, scikit learn, scipy), SQL, R (dplyr, sqldf, ggplot2), SAS, M Code, STATA
Tools: Tableau, Microsoft Power BI, Jupyter Notebook, RStudio, Google Colab, Microsoft Office (Word, PowerPoint, Excel)
Statistics & Machine Learning: Hypothesis Testing (t-test, chi-square test, ANOVA), A/B Testing, Regression, Classification, Clustering, Time Series, Predictive Modeling, Causal Analytics, supervised learning algorithms, Statistical Methods
Competencies: Critical Thinking, Self-Starter, Quantitative Modeling, Database Management, Analytical skills, Agile Methodology
Certifications: Alteryx Foundational Micro-Credential, Google Business Intelligence Certificate

EDUCATION

The University of Texas at Dallas | *Master of Science in Business Analytics* **May 2024**
University of Pune | *Bachelor of Engineering in Computer Science* **May 2019**

LEADERSHIP EXPERIENCE AND RECOGNITION

Envision (Data Visualization Club) – Technical Head, UT Dallas **Aug 2022 – May 2024**

- Mentored 500+ students on Data Science projects and organized technical Hackathons and events that enhanced practical skills and fostered a collaborative learning environment.