Omar Ansari

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Summary: -

Data Analyst with expertise in data modeling, manipulation, statistical analysis, and deriving actionable insights to drive business growth. A collaborative team player who enjoys transforming raw data into business gold. Proficient in Python, SQL, AWS, and Tableau, with strong stakeholder management and exceptional reporting skills—because every project needs a data enthusiast who can turn numbers into narratives.

Experience: -

Product Data Analyst | Cox Automotive | Dec 2023 – Present

- Collaborated with a cross-functional team of software engineers, analysts, and product managers to enhance a car valuation software.
- Built a robust data and reporting infrastructure using Tableau and SQL, creating 12+ advanced dashboards that deliver real-time insights into product performance, sales funnels, and business KPIs, driving growth and maximizing profits.
- Utilized Databricks to streamline data integration with Tableau, resulting in a 30% reduction in report generation time and increasing overall efficiency of data pipeline performance.
- Implemented exploratory analysis methods to uncover key insights from raw data, leading to a 20% improvement in product performance metrics.
- Collaborated with data engineering and BI teams to prepare, transform, and integrate data for comprehensive analysis and reporting.

Junior Data Scientist | Aston University | Jan 2023 – July 2023

- Analyzed global student data to shortlist potential markets, resulting in 300% increase in student inflow from South American Region.
- Developed a time series forecasting model using XGBoost to accurately predict future student intake, with performance validated by RMSE. Delivered reliable enrollment forecasts that informed strategic planning and optimized resource allocation.
- Built and tested predictive algorithms that led to a 15% improvement in accuracy compared to previous models. Communicated recommendations effectively through Tableau.
- Implemented Tableau dashboards to automate reporting processes, resulting in a 50% reduction in manual effort and increasing report accuracy by 35%.

Academic Projects: -

Customer Churn[Link]: Developed a customer churn prediction model using logistic regression, decision trees, and random forest, achieving 90% accuracy. Performed data cleaning, analysis, and manipulation to identify patterns, driving targeted retention efforts and cost savings.

Predictive Model Deployment with AWS[Link]: This project demonstrates the development and deployment of a neural network using AWS SageMaker and TensorFlow to predict penguin species. It includes end-to-end pipelines for data processing, model training, hyperparameter tuning, deployment, and real-time monitoring.

Retal Sales Analysis using SQL [Link]: Exploring sales data using SQL.

YouTube RAG Application[Link]: Exploring building RAG applications using open AI API and vector databases.

Skills and Abilities: -

- **Programming Languages**: Python, SQL, Pyspark
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- **Data Visualization:** Power BI, Tableau, Lookr Studio, Microsoft Excel.
- **Cloud Platforms:** Experienced with AWS services, including SageMaker, S3, EC2, Lambda, and Bedrock.

- **Data Engineering & Tools:** Skilled in Kubernetes, Docker, Kafka, Hadoop, Spark, CI/CD, and version control with Git
- **Machine Learning & Data Science:** Expertise in Scikit-learn, TensorFlow, PyTorch, XGBoost, predictive modeling, natural language processing, Pandas, Numpy, Deep Learning, and MLFlow, Vector Databases, RAG models, A/B Testing.

Education: -

MSc in Data Analytics | Aston university, Birmingham | Jan 2022 – Oct 2023 | (1:1 Honors)

- **Modules**: Statistical machine learning, Data analysis, Data science programming, Probability & statistics, Neural Networks
- **Thesis**: Developed an NLP text classification model to rank top university publishers, enabling real-time recognition and rewards for outstanding contributions.

B.E Mechanical | Mumbai university, Mumbai | Aug 2017- May 2021 | (1:1 Honors)

- Successfully filed patent "Adjustable handlebar Device for Two Wheelers", under Intellectual Property of India (IPO) – Patent Application No. 202121028957