Asmita Deshpande

Baltimore, Maryland | Email | LinkedIn | GitHub | Tableau | Portfolio

Professional Summary

Dynamic professional with a Master of Science in Information Systems and a Bachelor of Technology in Computer Engineering, actively seeking opportunities as a Data and Business Analyst. Proficient in leveraging advanced data analysis techniques and visualization tools such as Tableau and Power BI, combined with experience in cloud platforms like AWS and Azure, to deliver actionable insights, drive strategic business decisions, and enhance operational efficiency.

Education

University of Maryland Baltimore County, Baltimore, MD

Master of Science in Computer Science — May 2024

Coursework: **IS620** Advanced Database Project, **IS636** Structured System Analysis and Design, **IS733** Data Mining, **IS651** LAN Management **IS603** Decision Making Support System, **IS734** Data Analytics for Cybersecurity , **ENMG650** Project Management Fundamentals

University of Pune, India

Bachelor of Technology in Computer Engineering. — May 2020

Skills

Data Science & Analytics : Data Analysis, Data Visualization (Tableau, Power BI, Google Data Studio), Data Mining, Statistical Analysis, Exploratory Data Analysis (EDA), Business Intelligence.

Data Engineering : Data Pipelines, ETL, Cloud Data Processing (AWS, Azure), Airflow, Google Analytics.

Programming Language : Python, JavaScript, SQL, HTML/CSS, PL/SQL.

Project Management : Scrum Methodologies, Agile Frameworks, Collaboration Tools (Jira, Confluence, Git, Artifactory).

Work Experience

Data Analyst at DXC Technology, India. — July 2020 – July 2022

- Developed automated Python scripts to optimize workflows, achieving a 25% improvement in customer satisfaction rate.
- Designed and implemented dashboards using Tableau and Power BI, increasing operational efficiency by 25%.
- Collaborated with Atlassian support to resolve Jira migration issues, enhancing functionality performance by 30%.
- Managed tools like Jira, Confluence, and Artifactory, resolving 1000+ tickets and simplifying workflows for improved productivity.
- Conducted data-driven performance reviews and shared insights with senior management, driving informed decision-making and continuous improvement initiatives.

Student IT Project Assistant, University of Maryland Baltimore County, Baltimore, MD — Jan 2023 – May 2024

- Automated routine data processing tasks using Python, SQL, and Snowflake, reducing manual effort by 40% and improving data accuracy across 5+ departments.
- Optimized Tableau dashboards for financial KPI's increasing data visualization efficiency by 30% and providing insights for university stakeholders.
- Utilized Jira to manage project workflows and track milestones, ensuring timely delivery of key IT projects.
- Conducted in-depth data analysis using Excel, and Snowflake, identifying trends that influenced strategic decisions and enhanced resource allocation.
- Provided system-level support for IT infrastructure and collaborated with Confluence for documentation and knowledge sharing.

Summer Data Intern at StraViso, India — May 2019 – July2019

- Administered and optimized relational databases using SQL, implementing indexing, query optimization, and normalization to improve performance by 30%
- Enhanced digital marketing campaigns and analyzed data, enhancing campaign performance by 15%.
- Extracted and processed datasets from AWS RDS and S3 for SEO analytics, enhancing insights into user engagement and content performance.
- Collaborated on implementing privacy measures to protect sensitive data while enabling secure and compliant analytics.

Projects

Zillow Data Analysis

- Accomplished a 40% reduction in manual data processing time by designing and automating Python-based ETL pipelines for Zillow real estate data using Apache Airflow and AWS services.
- Improved data accuracy and accessibility for analysis by transforming 100% of raw API data into structured CSV formats stored in Amazon S3 and loaded into Redshift.
- Delivered actionable insights by creating interactive dashboards in Amazon QuickSight, visualizing over 10,000 real estate records for trend analysis.
- Set Reduced latency in ETL processes by implementing S3-triggered AWS Lambda functions, achieving a seamless flow of raw, intermediate, and transformed data.

Road Accident Analysis

- Enhanced data accuracy by 30% by cleaning and preprocessing 10,000+ road accident records, including resolving missing values and standardizing formats.
- Identified peak accident times and improved trend insights by 40% using pivot tables, slicers, and Excel formulas.
- Developed an interactive Microsoft Excel dashboard to visualize accident severity, time, and location, reducing data interpretation time by 50% for stakeholders.
- Influenced decision-making for road safety measures, by presenting actionable insights derived from a 20% increase in analytical depth.

Food Delivery System

- Optimized query performance by reducing execution time by 35% through indexing and advanced SQL query design for a database managing over 50,000 records across customers, orders, and restaurants.
- Streamlined order processing by automating discount and tax calculations via stored procedures, improving checkout efficiency by 40% for over 1,000 daily orders.
- Enhanced customer retention by implementing a recommendation system that identified restaurant preferences based on order history, leading to a 20% increase in repeat orders.
- Improved user satisfaction by integrating a real-time notification system, delivering instant updates on order status for 95% of transactions.

SQL Injection Detection

- Improved accuracy by 25% through feature engineering and supervised machine learning models (Logistic Regression, Random Forest, and XGBoost) on NetFlow datasets.
- Enhanced cybersecurity insights by analyzing 1,000+ network traffic records, identifying malicious SQL injection patterns, and reducing false positives by 15% using data preprocessing techniques.
- Streamlined dataset preparation, achieving a 30% reduction in model training time by performing feature importance analysis and selecting top 15 attributes to minimize dimensionality.
- Improved decision-making for stakeholders by creating 5+ visualizations (scatter plots, histograms, bar charts) that clarified feature relationships and SQL attack patterns.