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Asmita Deshpande

Baltimore, Maryland and open to relocate | [Email](#) | [LinkedIn](#) | [GitHub](#) | [Tableau](#) | [Portfolio](#)

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Professional Summary

Analytical and technical professional with 3+ years of experience in data analysis, system administration, and cross-functional collaboration. Expertise in leveraging Python, SQL, Tableau, and cloud platforms to design data-driven solutions, troubleshoot system inefficiencies, and optimize cross-functional workflows.

Education

University of Maryland Baltimore County, Baltimore, MD

Master of Science in Information Systems   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

MKSSS's Cummins College of Engineering for Women, 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).

Experience

Student IT Project Assistant | University of Maryland Baltimore County, Baltimore   **Jan 2023 – May 2024**
- Managed IT project workflows using JIRA, enhancing task tracking efficiency by 40% and ensuring on-time project completion.
- Resolved 150+ IT support tickets, reducing resolution time by 40% and improving system uptime for faculty and students.
- Administered university IT systems, implementing automated monitoring that reduced downtime by 25% and improved overall system reliability.
- Optimized Confluence documentation for IT support processes, decreasing recurring technical issues by 35% and improving troubleshooting efficiency.

Data Analyst | DXC Technology, India   **July 2020 – July 2022**
- Built automated data pipelines in Python, processing 5M+ records and reducing ETL runtime by 30%.
- Developed interactive Tableau dashboards analyzing 50K+ financial records, improving executive decision-making efficiency by 40%.
- Automated Tableau reporting, cutting manual data processing by 60% and increasing reporting accuracy by 90%.
- Performed EDA using Python & Excel, uncovering insights that boosted revenue by 15%.

Summer Data Intern | StraViso, India   **May 2019 – July 2019**
- Executed SQL queries to clean and analyze 100K+ records, improving data accuracy by 25% for reports.
- Analyzed large datasets using SQL and Excel, identifying trends that enhanced data-driven decision-making for stakeholders.
- Validated and corrected data in Excel, reducing reporting errors by 30% and ensuring high-quality insights.
- Created automated Excel reports with pivot tables, streamlining weekly reporting and cutting manual effort by 40%.

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 Quick Sight, 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.

Online 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 the 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.

Domino's Sales Analysis
- Boosted dashboard interactivity by 40% by designing Tableau visualizations, including filters for time, pizza types, and sales regions, enabling stakeholders to drill into data trends.
- Reduced data processing time by 50% by implementing efficient SQL joins and aggregations.
- Improved revenue tracking by 30% by developing SQL queries that calculated metrics like monthly revenue, top-selling pizzas, and customer segmentation.
- Identified peak sales periods and customer preferences, driving potential revenue growth opportunities by analyzing 12 months of transactional data.

Certifications
- Certified Scrum Master (CSM) | Scrum Alliance – ([Link](#))