

Asmita Deshpande

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

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 (UMBC)

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, SQL.

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

Experience

University of Maryland - Baltimore County | IT Project Assistant

Maryland, USA | 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.
- Optimized Confluence documentation for IT support processes, decreasing recurring technical issues by 35% and improving troubleshooting efficiency.
- Administered university IT systems, implementing automated monitoring that reduced downtime by 25% and improved overall system reliability.

DXC Technology, India | Data Analyst

Pune, 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%.

StraViso India Pvt. Ltd. | Data Intern

Pune, India | May 2019 - July 2019

- Improved data readiness by 85% by cleaning and preprocessing 100K+ records using Python and SQL.
- Enhanced recommendation accuracy by 25% by applying clustering and classification models to user behavior data.
- Boosted dashboard usage by 70% by designing Tableau reports that automated KPIs and replaced manual Excel tracking.
- Reduced experiment turnaround time by 40% by collaborating on A/B tests and analyzing outcomes for product optimization.

Projects

Student Mental Health Risk Prediction using Learning Analytics

- Analyzed academic & behavioral data from 395 students to classify mental health risk into Low/Medium/High categories.
- Increased recall for high-risk students from 0% to 33% by applying SMOTE to balance class distribution in Random Forest model.
- Enhanced model explainability across 20+ features as measured by SHAP value analysis by integrating interpretability techniques post-training.
- Delivered actionable insights for student support teams by visualizing risk trends in Tableau, enhancing data transparency across 3 risk levels.

Food Insecurity Analysis and Optimization

- Analyzed 72K+ U.S. census tracts using USDA Food Access Atlas to identify food deserts in both urban and rural regions.
- Uncovered 20%+ of food-insecure regions are concentrated in just 2 US states, delivering high-value insights through geographic clustering and KPI tracking.
- Identified that 76% of low-income, low-access zones are urban by applying segmentation and filter logic, enabling targeted interventions.
- Designed interactive Tableau dashboards to map low-income, low-access zones, cutting manual reporting time by 70%.

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.

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.

Certifications

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