UTKARSHA PATIL

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Summary

Data Analytics professional with 3+ years of experience in Python, SQL and Tableau specializing in data analysis, data visualization, and predictive modeling. Experienced in collaborating with cross-functional teams across disciplines, including healthcare and banking, to perform in-depth data analysis, uncover trends, and provide actionable insights.

Professional Experience

Data Analyst Intern, The Force for Health® Network – Tucson, AZ — Sep 2024 – Dec 2024
- Managed data ingestion and **ETL** for 40 U.S. counties and urban/rural areas in India using Python and Excel, ensuring data accuracy for visualization through **2 Tableau dashboards**
- **Structured and automated** six customer email campaign workflows tailored to diverse subscription plans, **reducing manual workload by 60% and improving segmentation accuracy**
- Collaborated with three **cross-functional** teams in an **Agile environment** to plan and execute weekly sprints, report progress, and resolve challenges, contributing to a 90% sprint completion rate and fewer project delays

Associate Consultant – Data Analyst, Capgemini Technology Services – India — Nov 2019 – Jul 2023
- **Developed and optimized complex SQL queries to** extract, clean, and analyze large datasets, improving accuracy in reporting
- Streamlined weekly performance analysis by developing a scalable **Performance Drivers dashboard**, reducing analysis time by 45% and enhancing leadership reporting with clear **KPI insights** for effective root cause analysis
- **Created and maintained 2 Tableau dashboards** for feature tracking and deep-dive analysis, **cutting weekly analytics work by 5 hours** and improving data-driven decision-making for cross-functional teams
- Conducted **3+ A/B tests** for email campaigns, delivering data-driven insights to optimize user engagement strategies.
- Performed **ad hoc and deep-dive analytics**, resulting in **a 7% improvement in key product KPIs** through actionable insights
- Partnered with **business and finance teams to align data reporting**, contributing to a standardized analytics framework

Academic Experience

Student AI Application Developer, Arizona Simulation Technology & Education Center – Tucson, AZ — Jan 2025 – May 2025
- **Analyzed cross-team requirements** to optimize AI-driven form-building and patient simulation, improving efficiency by 35% through **Python scripting and API integrations**
- **Conducted EDA** on chatbot logs, **identifying patterns** and **insights** to improve user experience and error handling
- **Analyzed user behavior** to boost chatbot response variability by 40% by improving session management
- Delivered **weekly progress updates** to 25+ team members, ensuring transparency, alignment, and incorporating feedback

Education

Master of Science in Data Science, University of Arizona — Aug 2023 – May 2025

Bachelor of Engineering in Computer Science, Savitribai Phule Pune University — Jun 2015 – Jun 2019

Projects

Crime Trends and Unemployment in Tucson — Aug 2023 – Dec 2024
- **Performed exploratory data analysis (EDA)** for **181K** crime and unemployment records uncovering correlations
- **Built and evaluated predictive models** using **Logistic Regression, Decision Tree, and K Nearest Neighbor**, with Random Forest achieving the highest performance, an **accuracy of 78% and an ROC-AUC of 87%**

Pharmacy Store Data Management System — Jan 2025 – May 2025
- Optimized inventory management by **normalizing data** and analyzing customer information using **advanced SQL queries**, including subqueries, CASE statements, and joins, **reducing query processing time** by 35%
- Applied data normalization techniques, **reducing data redundancy** by 27% and ensuring consistent **data integrity** across tables

Skills:

- **Programming Languages:** Python (Pandas, NumPy, SciPy, Matplotlib, Seaborn, sci-kit learn), SQL (MySQL)
- **BI & Data Visualization Tools:** Tableau, Python (Matplotlib, Seaborn, Plotly)
- **Data Analysis & Modeling**: Statistical Analysis (Hypothesis Testing), Predictive Modeling (Classification, Clustering)
- **Software:** Azure Databricks, Jupyter Notebook, Advanced Excel (Vlookup, Pivot Tables), GitHub, VS Code, JIRA, PowerPoint