Prasanna Kailash Warad

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EDUCATION

The University of Texas at Dallas, Dallas, TX August 2024 - May 2026
Master of Science, Information Technology & Management, *Dean's Excellence Scholar*
Graduate Diploma, Business Analytics & Data Mining
Savitribai Phule Pune University, Pune, India August 2018 - May 2022
Bachelor of Engineering, Electrical

TECHNICAL SKILLS

Programming & Languages: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL (Advanced), R, C++, C, PL/SQL, C#
Databases: MySQL, SQL Server, Oracle, NoSQL
Data Platforms: AWS (Lambda, Redshift), GCP (BigQuery), Azure (Synapse, Databricks, Purview), Snowflake, ServiceNow
Analytics & Visualization: Tableau, Power BI, Advanced Excel, EDA, Feature Engineering, Time-Series Analysis
Data Engineering: ETL, ELT, Airflow, Spark, Hadoop, Data Modeling, Lambda/Kappa Architecture, Classification Models

PROFESSIONAL EXPERIENCE

HCLTech Ltd, Noida, India February 2023 - July 2024
Data Analyst (Client – Dollar General)
- Analyzed 2M+ customer transaction records using **Python** and **SQL**, uncovering anomalies that refined data quality and strengthened predictive model reliability.
- Diagnosed **Oracle** database bottlenecks and implemented advanced indexing and **PL/SQL** tuning, boosting throughput by 30% and supporting 10K+ seamless daily transactions.
- Optimized critical data pipelines through caching and partitioning strategies, reducing query latency by 28% and ensuring real-time reporting during peak operations.
- Designed and deployed **Tableau** dashboards for executives and analysts, reducing manual reporting by 40% and expediting data-driven business decisions.
- Supported cross-functional teams in diagnosing system performance issues, delivering engineering insights that improved platform stability and reduced downtime incidents by 15%.

PROJECTS

Scalable Fleet Risk Analytics Project February 2025 – April 2025
- Built a scalable big data pipeline using **Hadoop** and **Power BI** to analyze driver risk and truck efficiency; ingested CSVs into HDFS, enabling real-time insights on 300+ vehicles across 14 states.
- Designed an interactive dashboard using **Power BI, R**, and **DAX** that flagged 75+ high-risk drivers, identified MPG volatility across truck models, and uncovered risk concentration at 620K+ miles-driving actionable strategies in maintenance and training.

Instacart Customer Behavior Dashboard January 2025 – February 2025
- Analyzed over 3 million Instacart grocery orders using **SQL** to uncover peak shopping hours, frequently reordered items, and behavioral trends across customer segments through cohort-based analysis.
- Engineered a **Tableau** story across 10+ interactive sheets, delivering real-time insights into product demand, customer engagement, and campaign ROI to drive optimized staffing, inventory, and marketing decisions.

Heart Disease Prediction & Analysis with R September 2024 - November 2024
- Developed health features and balanced 301K+ patient records to improve classification accuracy and ensure model generalizability.
- Attained 91.44% accuracy by evaluating and tuning **Random Forest** and **Neural Network** models, contributing to explainable predictions for clinical interpretation.

LEADERSHIP & COMMUNITY INVOLVEMENT

UTD Infinity Lions Club, *Vice President* January 2025 - Present
UTD Marathi Mitra Mandal, *Events Chair* January 2025 - Present