Prasad Pramod Patil

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EDUCATION

Syracuse University, Syracuse, NY **May 2026**
M.S. Data Science
Relevant Coursework: Applied Machine Learning, Business Analytics, Data Administration Concepts & Database Management, Quantitative Reasoning for Data Science, Scripting for Data Analysis, Data Warehouse, Visual Analytic Dashboards.

University of Mumbai, Pillai College of Engineering, Mumbai, India **May 2022**
Bachelor of Engineering in Information Technology

EXPERIENCE

System Analyst (Full-Time) **July 2022 – July 2024**
Tata Consultancy Services, Mumbai, India
- Analyzed 200+ SQL procedures documenting business logic for financial transaction reporting systems.
- Created source-to-target mappings for 15 databases supporting data integration and transformation accuracy requirements.
- Investigated 85+ data quality issues performing root cause analysis and reducing discrepancies by 40%.
- Verified 450M+ transactions ensuring completeness and accuracy of claims, premiums, and reserve datasets.

ACADEMIC PROJECTS

JMA Testing Chamber Performance Analytics. **August 2025 – Present**
- Examined 10,000+ testing records uncovering inefficiencies responsible for 40% SLA breaches and capacity constraints.
- Identified workflow imbalances through quantitative assessment revealing 2.5x duration variance across operational processes.
- Designed dashboards quantifying $3.3M improvement opportunity, presenting findings demonstrating 45% productivity gains.
- Confirmed findings through scenario modeling achieving 95% statistical confidence in projected productivity enhancements.

Predictive Crime Analysis & Classification Model. (Git) **February 2025 – April 2025**
- Performed EDA and forecasting on 9,100+ crime records using Random Forest and SARIMA models.
- Compared algorithm performances including SVM and XGBoost, documenting metrics to identify optimal model.
- Designed 15+ geospatial Tableau visualizations mapping crime density across 50+ neighborhoods.

Movie Ratings Analytics - Data Mining & Visualization. (Git) **September 2024 – December 2024**
- Assessed 1,153 movies detecting inconsistencies and establishing quality protocols for dataset integrity.
- Built ETL workflows integrating CSV and JSON sources reducing manual processing time by 35%.
- Conducted segmentation across 12+ genres deriving insights that informed content recommendation strategies.

TECHNICAL SKILLS / PUBLICATION

Statistical Modeling & Predictive Analytics: Predictive Analytics, Statistical Data Modeling, Performance Analysis, Model Validation.

Programming Languages: SQL, Python (Pandas, NumPy, Scikit-learn), R

Visualization Tools: Tableau, Power BI, Excel (Advanced - formulas, pivot tables, macros).

Microsoft Office Suite: Excel (Advanced), PowerPoint, Word.

Communication & Collaboration: Technical Documentation, Stakeholder Presentations, Cross-functional Collaboration

CERTIFICATIONS

Snowflake: Data Warehousing Workshop (DWW)

PUBLICATION

"International Research Journal of Engineering and Technology, Volume: 09 Issue: 01 - Voice Controlled E-commerce Web App IRJET-V9I194 "