

Prasad Pramod Patil

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EDUCATION

Syracuse University, Syracuse, NY 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.	May 2026
University of Mumbai, Pillai College of Engineering, Mumbai, India Bachelor of Engineering in Information Technology	May 2022

EXPERIENCE

System Analyst (Full-Time) <i>Tata Consultancy Services, Mumbai, India</i>	July 2022 – July 2024
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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.	
Healthcare Hub: End-to-End Analytics. (Git)	August 2025 – December 2025
<ul style="list-style-type: none">Architected Snowflake/dbt ELT pipeline with Kimball star schema for unified business intelligence.Engineered modular SQL/Jinja models and dbt tests, reducing auditing time by 50%.Designed Power BI dashboards tracking \$8.2M revenue and correlating stock-outs with procurement.	

Predictive Crime Analysis & Classification Model. (Git)	February 2025 – April 2025
<ul style="list-style-type: none">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.	

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 "
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