

Prasad Pramod Patil

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EDUCATION

Syracuse University, Syracuse, NY M.S. Data Science	May 2026
<i>Relevant Coursework:</i> 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 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 to document business logic for various financial reporting system updates.Developed source-to-target mappings for 15 databases ensuring data integration and high transformation accuracy.Investigated 85+ data quality issues, performing root cause analysis to reduce discrepancies by 40%.Verified 450M+ transactions ensuring completeness and accuracy for several large-scale financial dataset projects.	

ACADEMIC PROJECTS

JMA Testing Chamber Performance Analytics.	August 2025 – Present
<ul style="list-style-type: none">Examined 10,000+ testing records to uncover inefficiencies causing 40% of SLA breaches.Identified workflow imbalances revealing 2.5x duration variance across critical operational business processes.Constructed dashboards quantifying \$3.3M improvement opportunities and demonstrating 45% productivity gains.Validated findings through scenario modeling, achieving 95% statistical confidence in projected enhancements.	
Healthcare Hub: End-to-End Analysis. (Git)	August 2025 – December 2025
<ul style="list-style-type: none">Architected Snowflake/dbt ELT pipelines using Kimball star schemas for unified business intelligence.Engineered modular SQL/Jinja models and dbt tests, successfully reducing auditing time 50%.Visualized \$8.2M revenue via Power BI, correlating stock-outs with procurement data patterns.	
Predictive Crime Analysis & Classification Model. (Git)	February 2025 – April 2025
<ul style="list-style-type: none">Executed EDA and forecasting on 9,100+ records utilizing Random Forest and SARIMA for trend prediction.Evaluated SVM and XGBoost performances, documenting key metrics to identify the optimal 95% accuracy model.Deployed the model via Flask API, mapping crime density across 50+ neighborhoods with Tableau visualizations.	

TECHNICAL SKILLS

Languages & Frameworks	: Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras), SQL, R, Streamlit.
Machine Learning & Statistics	: Supervised/Unsupervised Learning, Deep Learning (Neural Networks), XGBoost, SVM, Random Forests, Feature Engineering, Model Evaluation, Time Series, A/B Testing, Statistical Modeling.
Data Infrastructure & Pipelines	: Snowflake, DBT, ETL/ELT Pipelines, SQL/NoSQL Databases, Data Cleaning, Data Preprocessing, Big Data Technologies (Spark, Hadoop)
MLOps & Tools	: Git/GitHub, CI/CD, Docker, Jupyter Notebook, VS Code, Google Colab.
Visualization & BI	: Tableau, Power BI, R, Matplotlib, Seaborn, Plotly, Excel (VBA, Macros, Pivot Tables)
Cloud Platforms	: AWS (S3, EC2), Azure (basic familiarity)
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](#)"