Prasad Pramod Patil

+1 (315) 278-2754 | ppatil20@syr.edu | linkedin.com/in/prasad-patil-64a83221a | prasadpatil0103.github.io

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 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**
- 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**
- 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**
- 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 / PUBLICATION

Programming 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 "