Yash V. Jadhav

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EDUCATION

Syracuse University, College of Eng & Computer Science Syracuse, NY　　　　**Aug 2024 - May 2026**
Master of Science, Computer Science
- **Coursework:** Data Structures, Computer Architecture, Design and Analysis of Algorithms, Assured Programming with Formal Methods, Principles of Operating Systems, Social Media & Data Mining

University of Mumbai, Vidyalankar Institute of Technology Mumbai, Maharashtra　　　　**Jun 2020 - May 2024**
Bachelor of Science, Electronics & Telecommunication
Minors in AI & ML
- **Coursework:** Cloud Computing & Security, Web Design, Control Systems, Database Management Systems, Natural Language Processing, Computer Vision, Probability & Statistics, Deep Learning, Data Science & Analytics

WORK EXPERIENCE

Syracuse University　　　　**Dec 2025 - Present**
Operations & Data Analytics Assistant　　　　Syracuse, NY
- Apply **relational data modeling**, normalization, and **structured** data management to maintain query-efficient exam and scheduling datasets supporting **operational analytics** and **decision support**.
- Execute **SQL** queries for **data extraction**, **data validation**, and **data reconciliation**, performing accuracy checks to ensure **data integrity** and reliable **reporting logic**.
- Leverage **Python (Pandas)** and spreadsheet-based **automation** to implement **data transformation**, cleanup, and batch processing across **multi-source data**, improving efficiency and **data quality**.
- Develop **KPI dashboards**, **performance metrics**, and **ad-hoc reporting** in Excel and BI tools to facilitate **stakeholder reporting**, workflow monitoring, and **trend analysis**.

Syracuse University　　　　**Sep 2025 - Dec 2025**
Data Science Researcher　　　　Syracuse, NY
- Led **data analysis** and **analytics workflows** on large-scale social media datasets deploying **Python, SQL, and Pandas** to generate **data-driven insights**, behavioral trends, and engagement metrics.
- Redesigned **ETL pipelines** for **data integration** and **data transformation** across 100K+ records, enabling improved **performance analysis** and reducing preprocessing time by 30 percent.
- Conducted **statistical analysis**, **feature engineering**, classification, and clustering to manage **trend analysis**, **root cause analysis**, and research-driven **decision support**.

Syracuse University　　　　**May 2025 - Aug 2025**
Graduate Research Assistant　　　　Syracuse, NY
- Analyzed 500K+ MLIR log records harnessing **SQL-based analysis** and Python to identify performance bottlenecks, reinforcing **operational analytics** and **efficiency improvement** initiatives.
- Built **executive-facing dashboards** and **data visualizations** to track runtime, memory usage, and scalability **performance metrics** for faculty and research stakeholders.
- Carried out **data auditing**, accuracy checks, and documentation of **business rules** to ensure enterprise-grade **data trust** and reproducible analytics workflows.

PROJECTS

Sales & Customer Insights Dashboard　　　　**Mar 2025 - Jun 2025**
- Designed and deployed **Power BI** and Streamlit **dashboard development** solutions for **revenue analysis**, **financial analytics**, and monthly **trend analysis** across 100K+ transactions.
- Spearheaded **data extraction**, **data transformation**, and **data integration** utilizing **SQL and Python**, catalyzing automated **KPI development** and **reporting automation**.
- Delivered **stakeholder reporting** through **KPI dashboards** tracking total revenue, average monthly revenue, variance analysis, and **performance metrics** to assist business decision-making.

Hospital Readmission Risk Predictor　　　　**Oct 2024 - Jan 2025**
- Rolled out a **predictive modeling** application employing **Python and Streamlit** to augment **healthcare analytics** and 30-day readmission **risk analysis** across 50K+ patient records.
- Implemented **Random Forest–based forecasting models** with Scikit-learn, applying **feature engineering** and class imbalance handling to achieve an F1-score of 0.82.
- Performed **data preprocessing**, **data validation**, and **statistical analysis** on clinical and utilization metrics, enabling accurate **performance analysis** and model trust.

SKILLS & CERTIFICATION

- **Programming & Data Analysis**: Java, Python, R, SQL (PostgreSQL, MySQL, Oracle), Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, SAS, Data Cleaning & Wrangling, EDA, Statistical Analysis.
- **Data Visualization, ML & NLP**: Power BI, Tableau, Excel (Advanced), Matplotlib, Seaborn, KPI Dashboards, Reporting & Trend Analysis, ML Modeling (Regression, Classification, Clustering), Feature Engineering, Model Evaluation, Time-Series Analysis, TF-IDF, Text Preprocessing.
- **Data Engineering, Databases & Cloud**: ETL/ELT Pipelines, SQL Query Optimization, MongoDB, AWS (EC2, S3, RDS), Docker, Git, GitHub Actions, CI/CD, REST APIs, Streamlit, Model Deployment, Reproducible Data Pipelines, Jira, Confluence.
- **Google Data Analytics Professional Certificate**