

RUTIKA AVINASH KADAM

Stony Brook, NY 11790 · +1 934-949-8653 · rutikaavinash.kadam@stonybrook.edu · LinkedIn · Portfolio · GitHub

EDUCATION

Stony Brook University

Master of Science in Data Science, GPA : 3.45/4.0

Coursework: Probability, Statistics, Data Analysis, Data Management, Machine Learning, Big Data Analysis, Cloud Computing.

Stony Brook, USA

August 2024 – May 2026

Savitribai Phule Pune University

Bachelor of Engineering in Information Technology, GPA : 4.0/4.0

Coursework: Discrete Structures, Data Structures & Algorithms, Data Science & Big Data Analytics, Cloud Computing.

Pune, India

August 2016 – May 2020

SKILLS

Programming: Python, R, MySQL, MongoDB, PL/SQL, C, C++, Java, HTML, CSS, Javascript.

Libraries & Frameworks: Numpy, Pandas, Matplotlib, Seaborn, scikit-learn, Tensorflow, Keras, Flask, React.js

Tools: Jupyter Notebook, Visual Studio Code, Eclipse, PowerBI, Tableau, Microsoft Excel, SQL ServerManagementStudio, Postgre SQL, Google Cloud Platform (GCP), Azure, GitHub, Microsoft Endpoint Configuration Manager (SCCM), Qualys, Aternity, ServiceNow, Jira.

PROFESSIONAL EXPERIENCE

Tata Consultancy Services

System Analyst

Pune, India

August 2020 – April 2024

- Collaborated with the Vulnerability Management team, effectively analyzed & resolved security vulnerabilities for 55,000 traditionally managed systems, imported from the Qualys cloud-based security platform into Jira.
- Led an agile team of 8 in data cleansing & transformation with Excel, Python, & PostgreSQL, demonstrating integrity & professionalism while achieving high data quality, reducing SQL query execution times by 30 minutes, & significantly enhancing Data Lake performance.
- Conducted regression analysis on security vulnerability trends & incident response efficiency using Python & SQL, leading to a 15% reduction in security risks & a 35% increase in stakeholder satisfaction through advanced PowerBI dashboards.
- Employed DAX to create calculated fields & measures for analyzing key metrics like Common Vulnerability Scoring System (CVSS) score, threat intelligence, exploitability, risk levels, remediation timelines & actions taken, deployment status, compliance rates within Aternity digital experience management tool-driven Vulnerability Analysis Dashboard.
- Designed & deployed technical solutions using Microsoft Endpoint Configuration Manager (SCCM), on vulnerabilities related to Microsoft Windows Operating System, MS Office updates & other applications, remediating issues and achieving 99% compliance.
- Enhanced SCCM configurations by implementing custom client settings, boundary groups, & distribution points to optimize delivery speed & efficiency. Automated repetitive tasks using PowerShell scripting, improving productivity by 25% & reducing manual efforts.
- Built queries & fetched reports from SQL Server 2012 R2 Management Studio as per client requirements.

Zensar Technologies

Machine Learning Intern

Pune, India

May 2019 – August 2019

- Improved sales forecasting by deploying an XGBoost model, increasing accuracy by 7% & reducing stockouts by 14%, optimizing inventory management.
- Built SQL-based ETL workflows for 30GB of transactional data; integrated Azure Event Hubs, Azure Databricks, & Azure Data Lake, improving data consistency by 30% & enabling near real-time processing. Tracked pipeline enhancements in JIRA.
- Developed interactive dashboards in PowerBI to analyze marketing trends; incorporated marketing team insights, improving campaign targeting & increasing customer engagement by 13%.

PROJECT EXPERIENCE

Student Exam Performance Prediction | Machine Learning, Python, Numpy, Pandas, Scikit-learn, HTML, CSS, Flask

- Developed a Flask web app to predict student math scores allowing user input & ML models.
- Engineered preprocessing pipeline with one-hot encoding; trained & evaluated multiple models including Random Forest, XGBoost, CatBoost, & Linear Regression based on R2 score.
- Optimized model with GridSearchCV, achieving 86.8% accuracy.

Adult Census Income Prediction | Python, Pandas, Matplotlib, Seaborn, Scikit-learn, Numpy, Machine Learning

- Built a supervised ML pipeline to predict income > \$50K/year using AIC-based feature selection.
- Trained & evaluated classifiers including Logistic Regression, KNN, Decision Tree, Random Forest, XGBoost, AdaBoost, & Gradient Boosting.
- Achieved 92.75% accuracy & top AUC with Random Forest using cross-validation and ROC analysis.

Swiggy Funnel Analysis and Conversion Insights | Data Analysis, Power BI, DAX, Problem Solving

- Developed an interactive dashboard using MS PowerBI, to conduct funnel analysis for Swiggy, e-commerce platform for online food ordering in India, cleaned & transformed data, employed DAX to create calculated fields & measures.
- Conducted a detailed funnel analysis, focusing on session metrics, traffic sources, & conversion rates. Identified fluctuations in order volumes, traffic, & conversion metrics (L2M, M2C, C2P, P2O) compared to historical data. Created dynamic dashboards & visualizations to highlight key trends, identified dates with significant changes, and developed data-driven hypotheses to explain performance variations.