

ADITYA P. BOBADE

Data Analyst | Machine Learning Enthusiast

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OBJECTIVE

Data & AI/ML Enthusiast with hands-on experience in building and deploying end-to-end machine learning systems. Developed a live customer churn prediction application and a financial fraud detection system using Python, Scikit-learn, and Streamlit. Skilled in transforming data into actionable insights and risk-driven business decisions. Seeking an entry-level Data Analyst / Data Scientist role to apply analytical and problem-solving skills in real-world environments.

TECHNICAL SKILLS

Programming: Python

Machine Learning: Scikit-learn, Supervised Learning, Classification, Regression, Model Evaluation

Data Analysis: Pandas, NumPy, Data Cleaning, EDA, Feature Engineering, Data Visualization

Visualization: Matplotlib, Seaborn, Power BI

Databases: MySQL, SQL, SQLite

Tools & Platforms: Streamlit, FastAPI, Git, GitHub, Jupyter Notebook, VS Code

Statistics: Probability, Hypothesis Testing

PROJECTS

Customer Churn Prediction System (Deployed) | Python, Scikit-learn, Streamlit, SQL

- Live App: <https://customerchurnprediction7900.streamlit.app>
- GitHub: <https://github.com/adityabobade7900/CustomerChurnPrediction>
- Built and deployed a real-time churn prediction system on 7,000+ telecom customer records
- Developed end-to-end ML pipeline including EDA, feature engineering, model training, and evaluation
- Achieved F1-score of 0.80 and ROC-AUC of 0.87 using Random Forest
- Designed 0–100 risk scoring system for customer segmentation (Low → Critical Risk)
- Identified ₹229K+ monthly revenue at risk, enabling business retention strategies

Sales Data Analysis | Python, Pandas, Matplotlib

- GitHub: <https://github.com/adityabobade7900/Sales-Data-Analysis-Python>
- Merged and analyzed 12 months of electronics retail data (~186,850 records) to extract actionable business insights
- Performed feature engineering (Month, City, Hour) and identified December as peak revenue month (\$4.6M)
- Discovered top product bundling pairs (iPhone + Lightning Cable: 2,140 co-purchases) to support cross-sell strategy
- Revealed inverse price-quantity relationship; identified San Francisco as top city at \$8.2M in total revenue

FinSight — Financial Anomaly Detection & Risk Analytics | Python, MySQL, Scikit-learn, Power BI

- GitHub: <https://github.com/adityabobade7900/FinSight-Financial-Anomaly-Detection>
- Analyzed 284,807 real credit card transactions on a highly imbalanced dataset (0.17% fraud rate)
- Built end-to-end ML pipeline: EDA, data cleaning, statistical analysis, anomaly detection, and classification
- Applied Isolation Forest (detected 490/492 fraud cases), Logistic Regression, and Random Forest (F1: 0.890, ROC-AUC: 0.905)
- Engineered a 0-100 risk scoring system with automated alert thresholds for business action
- Built Power BI executive dashboard; confirmed fraud vs. normal difference via T-Test ($p = 0.002$)

Employee Management System | Python, Tkinter, MySQL, Excel

- GitHub: <https://github.com/adityabobade7900/EmployeeHub>
- Managed employee data using structured datasets and optimized SQL queries
- Implemented backend logic using Python and OOP principles
- Demonstrated understanding of database relationships and workflow automation
- Handled structured data using CSV import/export functionality

EDUCATION

Bachelor of Computer Applications (BCA) — Pratibha College of Education, Pune <i>Grade B+ CGPA 6.71</i>	2025
HSC (Science) - Bal Bhim College, Beed <i>70.67%</i>	2022
SSC - Adarsh School, Beed <i>75.80%</i>	2020

CERTIFICATIONS & TRAINING

Data Science and Analytics Training — Seven Mentor IT Training Institute, Pune
Hands-on training in Python, SQL, Excel, Power BI, Statistics, Machine Learning, Deep Learning & AI

SOFT SKILLS

Problem Solving & Critical Thinking | Quick Learner | Team Collaboration | Clear Communication

LANGUAGES

Languages: English | Marathi | Hindi