

ROHAN MASHERE

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PROFESSIONAL SUMMARY

AI & Data Science undergraduate (CGPA: 8.63) with hands-on experience building and deploying end-to-end machine learning systems — from data preprocessing and model training to model evaluation, deployment. Strong foundation in Python, Scikit-learn, and ML deployment via FastAPI/Flask, with practical debugging experience.

EDUCATION

Bachelor of Technology – Artificial Intelligence & Data Science (CGPA:8.63) 2023-2027

- Dr. D.Y. Patil School of Science & Technology, Tathawade, Pune

Higher Secondary Education (MSBSHSE) - 65.00% 2023

- Chandmal Tarachand Bora College, Shirur, Pune

Secondary Education (MSBSHSE) – 86.00% 2021

- New English School Malthan, Pune

TECHNICAL SKILLS

- **Languages:** Python, SQL (MySQL), C, R
- **Data Science:** Data Cleaning, Data Processing, EDA, Data Visualization, Statistical Analysis, Feature Engineering
- **Machine Learning:** Supervised Learning, Unsupervised Learning, Scikit-Learn, Feature Engineering, Model Building, Model Evaluation, Hyperparameter Tuning, Explainability (SHAP), Model Deployment
- **Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, SciPy, XGBoost, LightGBM, CatBoost, SHAP
- **Frontend & Backend:** HTML, CSS, Streamlit, Flutter Flask, FastAPI, REST API Design, Firebase Authentication
- **Databases:** MySQL, Firebase, SQLite, Backblaze B2
- **Tools:** GitHub, Git, Jupyter Notebook, AWS, Visual Studio Code, Google Firebase, HuggingFace, Google AI Studio,

PROJECTS

AutoML-Studio | Python, Flask, Scikit-learn Jan 2026 – Mar 2026

- Built a full-stack AutoML web application capable of automatically solving classification, regression, clustering, anomaly detection, and time-series forecasting problems.
- Developed an end-to-end pipeline for data profiling, preprocessing, feature engineering, model training, hyperparameter tuning, explainability, and report generation.
- Integrated Gemini-powered AI assistant for natural language interaction, model insights, and workflow automation.
- Implemented advanced features including fairness auditing, synthetic data generation, model recommendation, drift monitoring, and automated retraining with experiment tracking.
- Enabled batch and single-record predictions through REST APIs with exportable deployment packages.

Network Anomaly Detection | Python, FastAPI, Scikit-learn, Streamlit Nov 2025 – Dec 2025

- Built a real-time network intrusion detection system using a hybrid rule-based and machine learning approach.
- Trained a Random Forest classifier on the UNSW-NB15 dataset, achieving 95.1% test accuracy and a 99.17% mean cross-validation score.
- Designed a rule-based engine to instantly flag attack patterns like DDoS spikes, bot bursts, and abnormal data transfers.
- Implemented live packet capture using Scapy to extract flow-level features for real-time classification via a FastAPI backend.
- Built an auto-refreshing Streamlit dashboard displaying live traffic trends, threat levels, and automated alerts.

Restro-Manager | Flutter, Firebase Aug 2024 – Sep 2024

- Developed a full-stack mobile application for complete restaurant operations including order management, billing, and inventory tracking.
- Architected role-based authentication system with separate access levels for admin, waiter, and kitchen staff.
- Implemented real-time order tracking and billing workflow with automated invoice generation.
- Integrated Firebase Authentication and Realtime Database for live data synchronization across multiple devices.
- Managed complex UI state using Riverpod ensuring smooth and responsive user experience.

CERTIFICATIONS

- NPTEL - Python for Data Science (Top 1%)
- NPTEL - Introduction to Machine Learning (Top 5%)
- Udemy – Complete Data Science, ML, DL & NLP Bootcamp