

Akshay Maniyampara

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Professional Summary

Data Scientist and ML Engineer skilled in **Python**, **SQL**, and modern ML frameworks including **PyTorch**, **TensorFlow**, and **Scikit-learn**. Experienced in building end-to-end ML pipelines for predictive modeling and time-series forecasting with proven results. Proficient in **data preprocessing**, **feature engineering**, **model optimization**, and deploying scalable solutions using **Flask** and cloud technologies. Strong background in **statistical analysis** and **data visualization**.

Career Objective: Seeking challenging roles in Data Science and Machine Learning that bridge predictive modeling with software engineering.

Education

SIES College of Arts, Science and Commerce

Bachelor of Science in Data Science, University of Mumbai

Mumbai, India

Expected: 2026

- Relevant Coursework: Machine Learning, Statistical Analysis, Data Mining, Database Systems, Big Data Analytics

Technical Skills

Languages: Python, R, SQL, JavaScript

ML/AI Frameworks: PyTorch, TensorFlow, Scikit-learn, XGBoost, NumPy, Pandas

Data Visualization: Matplotlib, Seaborn, Power BI, Tableau, Streamlit

Databases: MySQL, PostgreSQL, Oracle RDBMS, MongoDB, BigQuery

Big Data & Cloud: Apache Kafka, Apache Spark, Cassandra, NeonDB

Web & Deployment: Flask, React, Tailwind CSS, Git, GitHub Actions, Vercel

Developer Tools: VS Code, Jupyter Notebook, Excel, Framer Motion

Projects

Medmira – Medicine Reminder & Prescription Management System

Python, Flask, MongoDB, Gliner (NER), Google Cloud Vision, Twilio, Docker, GCP

2025

- Built an **AI-driven prescription system** using OCR (Google Vision) and NER (Gliner) to extract structured data from scanned prescriptions.
- Integrated **Twilio WhatsApp automation** for real-time prescription updates and patient notifications.
- Containerized backend with **Docker** and deployed on **Google Cloud Run** (MongoDB Atlas backend) ensuring scalable, fault-tolerant operations.

Uber Trip Demand Forecasting System

Python, XGBoost, Flask, Scikit-learn

2024

- Developed an ML pipeline using 15+ temporal features (lags, rolling averages, cyclical encodings) for hourly trip forecasting.
- Created a weighted ensemble (XGBoost + RF + GBRT) achieving **9.52% MAPE** and **0.966 R²** on 250K+ records.
- Deployed a Flask API for real-time predictions with preprocessing for missing and outlier data.

Portfolio Backtesting & Analytics Engine

PostgreSQL, Streamlit, Python, NeonDB

2024

- Designed a financial analytics system computing portfolio metrics (returns, volatility, Sharpe ratio) using PostgreSQL time-series data.
- Built a Streamlit dashboard for visual performance and risk analysis across multiple backtesting intervals.
- Used **NeonDB serverless architecture** with CI/CD via GitHub Actions achieving 99.9% uptime and 40% faster queries.

Data Science Portfolio Website

React, Tailwind CSS, Framer Motion, Vercel

2024

- Developed a modern, responsive one-page portfolio using React and Framer Motion with animated project showcases.
- Automated deployment via Vercel + GitHub Actions, reducing release time from hours to minutes with zero downtime.

Certifications & Highlights

Certifications: Google Business Intelligence Certificate (Coursera, 2024) – Comprehensive training in data modeling, ETL pipelines, and BI dashboards.

Portfolio: Deployed 3+ production-ready ML projects with live demos and open-source code on GitHub.

Technical Expertise: Strong foundation in statistical modeling, feature engineering, ensemble methods, and model optimization.