

# VIVEK WADHER

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## SUMMARY

Data Science graduate (CGPA 9.37) skilled in Python, SQL, Machine Learning, and Power BI. Built end-to-end solutions including a fraud detection system (94% accuracy), federated learning model, and interactive dashboards. Experienced in deploying ML-powered apps using Django and Flask.

## SKILLS

**Languages:** Python, SQL

**AI & Machine Learning:** Deep Learning, NLP, Time Series Analysis, Predictive Modeling, Clustering

**Framework & Libraries:** Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, StatsModels, PyTorch, Django, Flask

**Tools:** Power BI, MS Excel, MySQL, Jupyter Notebook, PyCharm, VS Code, GitHub

**Cloud:** AWS

**Domains:** Machine Learning, Data Analysis, Cloud, Data Science

## EDUCATION

**MSc Artificial Intelligence** | KES Shroff College, Mumbai

June 2025 – Present

**BSc Data Science** | KES Shroff College, Mumbai

June 2022 – March 2025

Grade: A+ | CGPA: 9.37

## EXPERIENCE

**Teaching Assistant** | KES Shroff College, Kandivali (West)

July 2024 – March 2025

- Assisted faculty in conducting lab sessions for undergraduate students.
- Demonstrated hands-on use of AWS services and data analysis workflows during practical sessions.

## PROJECTS

**Credit Card Fraud Detection** | Python · scikit-learn · SMTP | Jan 2025 – Mar 2025

- Built a fraud detection system using Isolation Forest and Logistic Regression achieving 94% accuracy.
- Reduced false positive rate by 18% through feature engineering and threshold tuning.
- Integrated real-time email alerts via SMTP for flagged transactions.

**FedLiteCare – Federated Learning for Diabetes Prediction** | Python · PyTorch · Tkinter

- Designed a lightweight federated learning system simulating 1 aggregator and 3 hospital nodes on a single machine.
- Built FedAvg aggregation pipelines with versioned global checkpoints and GUI dashboards using Tkinter.
- Kept raw patient data local to each node — achieving privacy-preserving predictions without centralised data sharing.

**Power BI Dashboards** | Power BI · SQL · Excel

- Adidas Sales Dashboard: Visualised regional sales trends and KPIs across product categories.
- Churn Analytics Dashboard: Combined SQL queries with ML predictions to identify at-risk customers.
- Healthcare Dashboard: Analysed inpatient vs outpatient admission patterns for resource planning.

## CERTIFICATIONS

- Business Intelligence with Power BI
- The Complete Python Pro Bootcamp
- Beginner Python Course

## AWARDS

- 1st Prize — Prompt: The Future | 14 Feb 2025

## VOLUNTEER EXPERIENCE

Head of Logistics & Registrations | KES Shroff College (Chakrawyuha) & IndiaNext Hackathon | 2022 – 2026