Samarth Kadam

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Summary

Machine Learning and Data Science undergraduate with hands-on experience in Python-based data analysis and model development. Worked with Scikit-learn to build and evaluate classification and NLP models, and used TensorFlow and TensorFlow Lite for computer vision model integration. Familiar with data preprocessing, exploratory data analysis (EDA), feature extraction, and model evaluation techniques.

Education

Vellore Institute of Technology, Bhopal — Bhopal, MP
B.Tech in Computer Science and Engineering — *Aug 2023 – Present*
Current CGPA: 8.13 / 10

Rao Junior College of Science — Mumbai, MH
Class XII (SSC Board) — *2023*

Holy Angels' High School — Mumbai, MH
Class X (SSC Board) — *2021*

Technical Skills

Programming Languages: Python, C++, Java, SQL

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Exploratory Data Analysis (EDA)

Machine Learning: Classification, Regression, NLP, Naive Bayes, Model Evaluation

Computer Vision & Deep Learning: TensorFlow, TensorFlow Lite, OpenCV, CNN (basic exposure)

Tools & Platforms: Git, GitHub, Flutter (ML integration)

Projects

Spam Email Filtering System — Apr 2025 – May 2025
Machine Learning & NLP Project — *Python, Scikit-learn*

Built an NLP-based spam classification system using **TF-IDF and Naive Bayes**, trained on **5,000+ labeled emails**, achieving **93–95% accuracy**, **92% precision**, and **90% recall** after preprocessing, feature extraction, and model evaluation.

Source Code & Documentation: github.com/Samarth229/spam-email-filtering

SkinSync – Skin Type Detection App — Mar 2025 – Apr 2025
Computer Vision & Applied ML — *Flutter, Python, TensorFlow Lite*

Developed a CNN-based mobile application for automated skin type detection, trained on **1,000+ facial images across 4 skin categories**, achieving **˜88% validation accuracy** with **¡300 ms on-device inference time** using TensorFlow Lite.

Source Code & Documentation: github.com/Samarth229/skinsync

Banking Data Insights & Visualization — Dec 2025
Data Analysis Project — *Python, Pandas, Matplotlib*

Performed exploratory data analysis on **10,000+ banking transaction records**, applying data cleaning, aggregation, and visualization to identify spending patterns, frequency trends, and category-wise behavioral insights.

Source Code & Documentation: github.com/Samarth229/banking-data-insights

Certifications

Introduction to Machine Learning – NPTEL (IIT Madras)

Data Science Virtual Experience Program – Finlatics

Fundamentals of AI and ML – VIT Yarthi

Python Programming – VIT Yarthi