Aniruddha Kulkarni

United Kingdom — +44 7823 681540 — kaniruddha16@gmail.com
linkedin.com/in/aniruddha-kulkarni — github.com/aniruddha6969

Professional Summary

Motivated MSc Artificial Intelligence student at the University of Aberdeen with a solid foundation in data structures, algorithms, and full-cycle machine learning. Skilled in Python, C++, and deep learning frameworks like TensorFlow and Keras. Experienced in solving real-world problems using computer vision, NLP, and model evaluation techniques. Known for writing clean, efficient code and rapidly learning new technologies. Actively seeking challenging opportunities in AI, data science, or software engineering where I can contribute to impactful projects and continue growing as a developer.

Education

University of Aberdeen, UK
MSc in Artificial Intelligence *2024 – 2025*
Relevant Coursework: Applied AI, Natural Language Generation, Deep Learning, Multi-Agent Systems

Savitribai Phule Pune University, Pune, India
B.E. in Artificial Intelligence *2020 – 2024*
CGPA: 8.46 / 10

Projects

Curriculum-to-Job Matching Chatbot (MSc Project)
Developed an intelligent chatbot to map AI curriculum learning outcomes to real UK job listings using NLP and sentence-transformers. Extracted skills from 150+ job descriptions, identified skill gaps, and visualized insights via Streamlit dashboards.
Technologies: Python, Pandas, SBERT, Google Colab, Streamlit

Image Classification with ResNet50 (CIFAR-10)
Built and trained a deep CNN using ResNet50 on the CIFAR-10 dataset. Achieved 85% test accuracy using transfer learning, data augmentation, and early stopping with TensorFlow and Keras.

Assistive App for Visually Impaired
Created a real-time object detection app using YOLOv5 and OpenCV with audio feedback for spatial awareness. Integrated text-to-speech for object localization and optimized the model for Android deployment.

Road Lane Line Detection System
Implemented a robust lane detection pipeline using OpenCV with Canny edge detection and Hough transforms. Tuned adaptive thresholds for real-time accuracy across varying light conditions.

Credit Card Fraud Detection
Analyzed imbalanced transaction data and applied logistic regression with SMOTE oversampling. Improved precision-recall scores through hyperparameter tuning and visualized performance using Matplotlib.

Number Plate Detection
Built a lightweight vehicle number plate detector using Haar cascades in OpenCV. Tested on live feeds and real-world datasets, with an extended prototype using YOLOv3 for higher accuracy.

Work Experience

ML Intern – Psyliq (Remote) *Feb 2024 – Mar 2024*
Built LSTM-based stock predictor. Focused on preprocessing, tuning sequences, and evaluating prediction accuracy.

Python Developer Intern – CodeClause *Mar 2023 – Apr 2023*
Developed backend microservices and Python automation tools with unit testing and modular code improvements.

Skills

Languages: Python, C++, SQL
Frameworks: TensorFlow, Keras, scikit-learn, OpenCV
Tools: Git, Jupyter, VS Code, Google Colab
Concepts: CNN, LSTM, Transfer Learning, NLP, Imbalanced Data
Soft Skills: Team collaboration, agile learning, clear communication