

Kartikey Agarwal

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SUMMARY

Computer Science student with proficiency in Python, machine learning, and computer vision. Strong interest in LLMs, prompt engineering, and generative AI. Seeking internship opportunities to develop expertise in AI.

EXPERIENCE

Research Intern

India Space Lab

December 2024 – January 2025

- Researched drone technology and its applications in astronomy.
- Use UAV mechanics, propulsion, AI integration, and control systems.
- Explored drone-based celestial observations and data collection.

PROJECT

Fake News Detection

fake-news-detection-app-b5q6luhvbetjsohlr3zub5.streamlit.app/

- **Tech Stack:** Python, Scikit-learn, NLTK.
- **Key Skills:** Text preprocessing, TF-IDF, Logistic Regression, SVM, Model Evaluation.
- Built an NLP model to classify news articles as real or fake, achieving 98% accuracy with Logistic Regression and SVM.
- Designed an end-to-end pipeline using advanced text preprocessing and feature extraction.

Real-Time Sign Language Detection System

- **Tech Stack:** Python, OpenCV, TensorFlow/Keras, MediaPipe.
- **Key Skills:** CNN, Computer Vision, Image Processing, Classification.
- Developed a real-time system to recognize ASL hand gestures from webcam video using CNNs.
- Employed MediaPipe for robust hand landmark detection and gesture preprocessing.
- Enhanced gesture prediction accuracy and response time for seamless user interaction.

EDUCATION

Bachelor of Technology

VIT Bhopal University • 2026 • 8.22

Class XII

Meerut Public School • 2022 • 95%

Class X

Meerut Public School • 2020 • 87.8%

SKILLS

Programming Languages: Python, C++ .

Machine Learning & AI: Scikit-learn, TensorFlow, CNN, LLM .

Computer Vision & NLP: OpenCV, NLTK, Text Preprocessing, TF-IDF, Image Processing .

Development Tools: Jupyter Notebook, Streamlit , Git/GitHub .