

# Kartikey Agarwal

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## EDUCATION

### VIT Bhopal University

September 2026

Bachelor of Technology in Computer Science, CGPA – 7.93

Relevant course work: Data Structures and Algorithms, Database Management Systems, Operating Systems, Web Technologies, Computer Networks, Artificial Intelligence, Object-Oriented Programming

## PROFESSIONAL EXPERIENCE

### Indian Space Lab

December 2024 - January 2025

#### Research Intern

- 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.

## PROJECTS & EXTRACURRICULAR

### Real Estate Website

- Developed a full-stack real estate application using Node.js, Express, and MongoDB to manage property listings and user information.
- Integrated user authentication for secure transactions.
- Emphasized responsive design using HTML, CSS, and Bootstrap for optimal user experience across devices.

### Fake News Detection

<https://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

- 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.

## SKILLS

**Programming Languages:** Python, C++.

**Machine Learning & AI:** Scikit-learn, TensorFlow, Logistic Regression, SVM, CNN.

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

**Development Tools:** Jupyter Notebook, Streamlit (for web apps), Git/GitHub.

**Other Skills:** Model Evaluation, Real-Time Detection, Classification, Web Deployment.