Vaishnavi Gupta

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Summary

Aspiring AIML Engineer with hands-on experience in building deep learning and computer vision projects using Python, OpenCV, and TensorFlow. Strong foundation in data preprocessing, model development, and deployment. Quick learner with problem-solving abilities, strong communication skills, and can contribute effectively in collaborative team environments.

Education

Bachelor of Technology/Computer Science and Engineering [AIML]	*Sept 2022-June 2026*
Moradabad Institute of Technology, Moradabad	*CGPA: 7.64*
Intermediate	*2021-2022*
S.S. Children Academy, Moradabad (CBSE)	*Percentage:90.4%*
Matriculation	*2020-2021*
S.S. Children Academy, Moradabad (CBSE)**	*Percentage:92.4%*

Experience

Intern, IBM-Online   *July 2025 – Aug 2025*

Developed and deployed a Book Recommendation Chatbot using IBM Watson Assistant, integrating intent recognition and entity extraction. Automated text-to-speech generation using IBM Cloud APIs, improving conversational efficiency.

Projects

Hand Gesture Tracking: Developed a real-time hand gesture tracking system using **MediaPipe** and **OpenCV** to detect and interpret hand movements for gesture-based interaction. Enabled functionalities such as gesture recognition, finger counting, and virtual drawing, demonstrating practical use of **computer vision** and **machine learning**.

Road Detection By Using Deep-Learning: Implemented a deep learning model for road detection in satellite images using the U-Net architecture with the Keras framework. Focused on semantic segmentation to accurately identify road regions, achieving precise pixel-level classification. Preprocessed datasets, trained the model, and evaluated performance using metrics like IoU and accuracy.

Skills

- **Programming languages-** Python, C (basic), C++(basic), Java (basic)
- **Libraries and frameworks**- Numpy, Pandas, OpenCV, Keras
- **Web Technology-** HTML
- **Data Visualization-** Power BI, Matplotlib, Seaborn
- **Database Management-** MySql
- **Tools & Platform-** VsCode, PyCharm, Jupyter Notebook, IBM Cloud

Certifications

- **HTML & CSS (Ducat)**   *May 2025*
- **Machine Learning (NPTEL, IIT Madras)**   *Sept 2024*
- **Python (CISCO Training Academy)**   *Nov 2023*