

Pranjal Sharma

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SKILLS

Python (NumPy, Pandas, OpenCV, TensorFlow, FastAPI), SQL, C, Power BI, MS office, Docker, Arduino

EXPERIENCE

ML Intern <i>EduNet Foundation-AICTE</i>	Jan 2025 – Mar 2025 <i>Remote internship</i>
Technical Intern <i>Indian Space Labs</i>	Dec 2024- Jan 2025 <i>Remote internship</i>

• Engaged with a cross-functional team of 5 to design and develop a Disease Outbreak Prediction Model, aimed at early detection and public health support. Leveraged ensemble learning techniques, including Bagging, to enhance the model's predictive performance, achieving 96% accuracy and identifying the top three sources of prediction errors. Applied DevOps practices in 2 projects, integrating CI/CD pipelines and utilizing GitHub for effective version control and collaborative development.

• Collaborated with interdisciplinary teams to integrate deep learning techniques for aerosol analysis, leading to a predictive model with 85% accuracy in forecasting pollution levels. Acquired proficiency in the Bhuvan portal, analyzing satellite imagery from 7+ different satellites, and refining geospatial data interpretation skills. Gained hands-on experience in remote sensing and Earth observation; analyzed 200+ satellite images to examine aerosol deposition patterns across regions.

PROJECTS

APCIS <i>Squential,DL, Python, Sockets</i> <i>Github Link</i>	Dec 2024 – Jan 2025
• Developed a classification model for Ayurvedic plants using computer vision techniques, and integrated a Large Language Model (LLM) to generate detailed descriptions and usage information for 1700 plant species . Constructed an innovative CNN architecture for classifying rare medicinal plants with 90% precision.	
LIDAR with face tracking <i>Python,CV2,YOLO v5</i> <i>Github Link</i>	Apr 2024 – May 2024
• Created a system for specific face detection and real-time tracking using a LASER beam, enabling high-precision targeting of up to 15 faces simultaneously. Trained and deployed a YOLOv5-based model achieving 92% accuracy in identifying and tracking unique facial features.	
GHOST <i>Python, Flask, Arduino</i> <i>Github Link</i>	Aug 2023 – Oct 2023
• Implemented support for Equatorial, Horizontal, and Ecliptic coordinate systems and wrote a conversion module, reducing manual alignment time by 30%. Engineered a custom pan-tilt mechanism using servo motors, reducing project cost by 20% without compromising precision.	

CERTIFICATION

Data Science with Python <i>Finlatics</i>	Jan 2025
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EDUCATION

Vellore Institute of Technology <i>Bachelor of Technology in Computer Science</i>	2022-2026 8.37 CGPA
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OTHER

Languages: English (Fluent), Hindi (Fluent)