Pranjal Sharma

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Experience

ML Intern Jan 2025 – Mar 2025

EduNet Foundation-AICTE *Remote internship*

- 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.

Technical Intern Dec 2024- Jan 2025

Indian Space Labs *Remote internship*

- 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 | *Squential,DL, Python, Sockets* | *Github* 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, medicinal properties, and usage information for 1700 plant species.
- Constructed an innovative CNN architecture for classifying rare medicinal plants with 90% precision, automating the generation of detailed plant profiles using the Ollama LLM integration.
- Incorporated the ResNet 50 model using transfer learning, which enhanced image classification precision to 88% .

LIDAR with face tracking | *Python,CV2,YOLO v5*| *Github* 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 | *Python, Flask, Arduino*| *Github* 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.
- Pinpointed the coordinates of 15+ celestial objects with 0.01° accuracy using the Stellarium API, improving system accuracy by 20%.

Education

VIT Bhopal University Bhopal, MP

Bachelor of Technology in Computer Science *8.36 CGPA (Ongoing)*

Amresh Sharma Public School Bhilai, CG

Higher Secondary(CBSE Board) *77.8% (May 2022)*

Gurukul Public School Kawardha,CG

Higher Secondary(CBSE Board) *84.2%(May 2020)*

Other

Technical Skills: Python (NumPy, Pandas, OpenCV, TensorFlow), SQL, C, HTML, CSS, React, Arduino

Soft Skills: Leadership, Active Listening, Operational Skills, Collaboration

Languages: English (Fluent), Hindi (Fluent)