

Pranav A R

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EDUCATION

- Gitam (Deemed) University** Visakhapatnam, India
Bachelor of Technology - Computer Science and Engineering *Sep 2022 - Ongoing*
- Kendriya Vidyalaya No.2** Mangaluru, India
Intermediate - PCMC *Aug 2020 - May 2022*

SKILLS SUMMARY

- Core Expertise:** Deep Learning, Applied Machine Learning, End-to-End ML Pipelines, Model Training
- Programming:** Python, SQL, Bash, C/C++, HTML, Rasterio, GDAL, Geopandas
- ML ops & Cloud:** GCP, Vertex AI, Model Deployment, Experiment Tracking, APIs, Apache
- Deep Learning:** Tensorflow, Tensor-RT, Transfer Learning, Neural Networks
- Data & Analytics:** ETL Pipelines, Time-series Analytics, Data Handling and processing for Machine Learning, GIT, Docker, QGIS
- Computer Vision:** OpenCV, YOLO, PointNet, Lidars, Remote Sensing
- Systems:** GPU acceleration(CUDA), Linux, WSL2
- Leadership:** Technical Leadership, Project Management, Cross-Functional Team Collaboration, Club Management

EXPERIENCE

- TechBharat AI** On-Site
AI Researcher (Part-time) *Sept 2025 - Present*
 - Computer Vision Systems:** Designed and optimized object detection and re-identification pipelines using YOLO focusing on real world deployment
- University of Kerala, Trivandrum** On-Site / Remote
Research Intern (Hybrid) *Jul 2025 - Present*
 - Designed and implemented :** Developed an end-to-end deep learning pipeline for large-scale geospatial and time-series data, integrating satellite imagery and terrain features to analyze regional risk patterns and deployed using GCP.
- Indian Institute of Space Science and Technology** On-Site
Intern (Full-time) *Jun 2024 - Jul 2024*
 - Depth-Based FER:** Worked at CVVR Lab under Dr. Deepak Mishra on Depth-Based Facial Expression Recognition using **PointNet** and **CNNs**.
- Indian Institute of Space Science and Technology** On-Site
Intern (Full-time) *May 2023 - Jul 2023*
 - LiDAR Processing:** Developed integration and preprocessing techniques for depth perception and point cloud extraction with **Intel LiDAR cameras in Python**.
- AeroGitam (Co-curricular Expertise)** Visakhapatnam, India
President (Part-time) *May 2024 - June 2025*
 - Club Management:** Led UAV and LiDAR projects, organized technical events, and collaborated with alumni and faculty for funding and outreach.

PROJECTS

- Citizen Facility Monitoring System:** Enterprise-grade computer vision system using CCTV feeds to analyze customer flow, staff activity and operational efficiency thorough automated analytics.
- UAV for Terrain Mapping:** UAV with LiDAR for terrain mapping and point cloud acquisition, integrated with **Raspberry Pi 4** and **Intel Realsense**.
- Geospatial Risk Prediction System:** Deep Learning pipeline leveraging satellite
- Facial Expression Recognition Using Depth and PointClouds:** **CNN + PointNet** trained on AffectNet for emotion classification.
- Digital AI Twin for Student Experience Management:** AI-powered digital twin platform using predictive analytics and reinforcement learning to personalize student experience; presented as a poster at an academic symposium.

CERTIFICATIONS

- AI Infrastructure and Operations Fundamentals:** Nvidia
- The Fundamentals of RDMA Programming:** Nvidia
- Modern Robotics: Mechanics, Planning, and Control Specialization:** Northwestern University
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization:** DeepLearning.AI
- Machine Learning with Python:** IBM AI Engineering
- Python Project: Pillow, Tesseract and OpenCV:** University of Michigan
- Visual Perception for Self-Driving Cars:** University of Toronto