AI Data Intern- Autonomous Systems

Company overview

PRAGNA AI builds indigenous, advanced sensor autonomy for drones, eVTOLs, and critical-infrastructure surveillance. We fuse **perception**, **mapping**, and **edge AI** into deployable systems for real-world operations in transportation and defense sectors.

Position summary

We're hiring **R&D Interns** to work end-to-end on LiDAR data: **collection, processing, model training, and prediction testing**. You'll contribute production-grade C++/Python code, run experiments, and help turn research into working systems. **High performers will be converted to AI Data Scientist / AI Data Engineer roles after 6 months.**

Key responsibilities

- Plan and execute **LiDAR data collection** (indoor/outdoor), maintain logs, and ensure calibration integrity.
- **Pre-process & curate** 3D data (filtering, down-sampling, registration, segmentation, labeling pipelines).
- Build reproducible **training datasets**; version datasets, configs, and experiments.
- Implement and optimize **model training** (classical + deep learning for 3D detection/segmentation/SLAM).
- Create **evaluation suites** (metrics, baseline comparisons, ablation studies; unit/integration tests).
- Write **clean, modular code** (C++/Python) with CI checks; document design choices and results.
- Collaborate with hardware/firmware teams for **sensor sync**, **time stamping**, and **field testing**.
- Present findings through reports, 3D visualizations; propose next steps backed by data.

Required qualifications

- Passion to work in the startup environment.
- Bachelors/ Masters degree.
- **Any engineering background** (ECE/EEE/Mech/CSE/AI/Robotics/Instrumentation, etc.).
- Strong programming in **Python** and **C++** (data structures, performance awareness).
- Comfort with **NumPy/PyTorch** or **TensorFlow**, and Linux + Git basics.
- Curiosity for **3D perception**, **robotics**, and a **startup mindset** (ownership, speed, humility).

Preferred qualifications (nice to have)

- Coursework or projects in **Point Clouds / SLAM / 3D CV** (PCL/Open3D/ROS).
- Exposure to **CUDA**, **ONNX/TensorRT**, or model quantization/acceleration.
- Exposure to **sensor fusion** (IMU/GNSS/Cameras) and calibration.
- Safety/field readiness: checklists, incident logs, and disciplined test protocols.

What we offer

- **Conversion track (6 months → full-time)** as **AI Data Scientist** or **AI Data Engineer** based on performance.
- Mentorship by founders building real autonomy stacks; rapid ownership of subsystems.
- Field days with **hands-on LiDAR** hardware and real deployment scenarios.
- Startup culture: high trust, high bar, fast feedback, visible impact.
- Attractive stipend.

TO APPLY

Send your CV to raghu@pragnaai.com