



NEEL M NAIK

Bengaluru, KA | +91-9353820682 | neel.m.naik4@gmail.com | <https://neel-m-naik.is-a.dev/>

Results-driven Information Science Engineering professional specializing in machine learning and 3D computer vision. Proven expertise in developing PyTorch models for LiDAR-based point cloud data processing, with practical experience applying advanced spatial algorithms to complex aerospace applications, including satellite pose estimation and autonomous rendezvous systems.

EXPERIENCE

OCT 2025 -
NOV 2025

CYBERSEC INTERN, CRYPTO SOLUTIONS DEPT, PDIC, BHARAT ELECTRONICS

Evaluated robust cryptographic systems and secure engineering protocols to fortify encryption and decryption standards used in national defense technology.

MAR 2026 -
JUNE 2026

MACHINE LEARNING & COMPUTER VISION INTERN, BELLATRIX AEROSPACE

Engineered PyTorch-based machine learning pipelines and custom PointNet autoencoders for LiDAR point cloud processing, leveraging PCA and ICP algorithms to optimize 3D feature extraction for high-precision satellite pose estimation during autonomous space rendezvous.

EDUCATION

2017 - 2020

PRE-UNIVERSITY (CLASS XII), NARAYANA PU COLLEGE

Built a robust analytical foundation through intensive coursework in fundamental physical and biological sciences, preparing for advanced engineering disciplines.

2021 - PRESENT

BACHELOR OF ENGINEERING IN INFORMATION SCIENCE & TECH, NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

Developed an advanced Military Asset Surveillance Robot for the final-year capstone project, integrating sophisticated sensor arrays to enhance threat detection in hazardous environments.

SKILLS

- **Programming Languages:** C, C++, Java, Python, HTML/CSS/JAVASCRIPT
- **Machine Learning & Vision:** Deep Learning, 3D Reconstruction, Spatial Feature Extraction, Satellite Pose Estimation, Point Cloud Analysis
- **Frameworks & Libraries:** PyTorch, NumPy, Tensor Operations, PointNet Autoencoders
- **Algorithms & Mathematics:** Principal Component Analysis (PCA), Iterative Closest Point (ICP)
- **Domain Expertise:** LiDAR Data Processing, Cryptography & Secure Engineering Protocols

ACTIVITIES

Dedicated to a multi-year fitness and strength training regimen; actively participate in rated online chess matches to sharpen strategic and analytical thinking.