

# Prabudh Gautam

prabudhrocky2003@gmail.com — +91-9958147829 — GitHub — LinkedIn

**Target Role:** AI/ML Engineer

## Profile Summary

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Motivated Electronics and Communication Engineering graduate with hands-on experience in Artificial Intelligence and Machine Learning, specializing in computer vision, pose estimation, and deep learning applications. Proven ability to develop, test, and deploy intelligent systems using Python, OpenCV, and MediaPipe. Strong foundation in mathematical concepts for ML, with research paper on applied AI system. Skilled in problem-solving, data analysis, and cross-functional collaboration.

## Education

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**B.Tech in Electronics and Communication Engineering**

2021 – 2025

Galgotia's College of Engineering and Technology

## Experience

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**AI/ML Intern – Zippi.ai**

Jul 2024 – Sep 2024

- Developed and deployed the **FITORBIS** project integrating pose estimation and ML for real-time exercise recognition.
- Gained hands-on experience in computer vision, LLMs, and research paper writing.
- Contributed to model evaluation and optimization for accuracy and speed.

## Projects

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**FITORBIS – AI-Powered Fitness Alarm System**

Final Year Project

- Designed an alarm system requiring completion of physical exercises to deactivate.
- Achieved **95% accuracy** on exercise repetition detection using a 500-video dataset.
- Implemented real-time HAR (Human Action Recognition) with MediaPipe 2D pose estimation.
- Deployed on Raspberry Pi using optimized Python code for GPU-free execution.
- **Tech Stack:** Python, OpenCV, MediaPipe, NumPy, Pandas
- Research Paper: Conference Paper (2025)

## Skills

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**Soft skills:** Good Communication, Time Management and Problem-solving Abilities

**Programming:** Python, SQL, OOP Principles

**Libraries/Tools:** NumPy, MySQL, MS office, OpenCV

**AI/ML:** Machine Learning, Deep Learning, LLMs, RAG

**Mathematics:** Linear Algebra, Probability, Calculus

**Computer Vision:** pose estimation

## Leadership Experience

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**President – NMIH GCET Club**

2022 – 2024

- Founded the club under NEP 2020 to promote student development and professional exposure.
- Organized technical events, competitions, and educational trips to **NSIC** and **DEFCON Delhi 2024**.
- Managed multi-event campaigns with **200+ participants**, leading a team of volunteers.