Prabudh Gautam

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Target Role: AI/ML engineer

Profile Summary

Enthusiastic AI/ML engineer with hands-on experience in computer vision, pose estimation, and deep learning applications. Skilled in developing, testing, and deploying intelligent systems using Python, OpenCV, and MediaPipe, with a strong foundation in machine learning mathematics. Experienced in model optimization, LLMs, and applied AI research, including publishing a paper on real-world AI applications. Adept at problem-solving, data analysis, and cross-functional collaboration, with a passion for building impactful AI-driven solutions that enhance user experiences and business outcomes.

Education

B.Tech in Electronics and Communication Engineering   2021 – 2025
Galgotia's College of Engineering and Technology

Experience

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

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

Soft skills: Good Communication, Time Management and Problem-solving Abilities
Programming: Python, SQL, OOP Principles
Libraries/Tools: N8N,FastAPI, NumPy, MYSQL, MS office
AI/ML: Machine Learning, LLMs, RAG
Mathematics: Linear Algebra, Probability, Calculus
Computer Vision: pose estimation

Leadership Experience

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.