Aneesh Raskar

 Pune, Maharashtra, India

 aneeshraskar@gmail.com | ✆ +91-7666821785 | 🌐 My Portfolio | 💼 Linkedin | Github

Education

Vellore Institute of Technology, Chennai, B.Tech in Computer Science with Specialization in AI and ML	Sept 2021 – Present
	CGPA: 8.07

Experience

AI ML Intern, WIT Solutions, Pune — Sept 2023 – Dec 2023

- Engineered an Exception-V3 model that significantly improved Diabetic Retinopathy diagnosis, reaching a 93% accuracy rate on the IDRiD dataset.
- Streamlined company operations by 15%, enhancing efficiency and reducing complexity.

Board Member, HackClub - VITC, Chennai — Jan 2023 – June 2024

- Directed event execution and community outreach for over 10 events and 4 hackathons, engaging more than 250 students and promoting collaboration across campus, leading to the formation of 3 new technical initiatives.
- Promoted from management team member to management lead in July 2023, then to board in Jan 2024.

Member of Electrical Dept., Dreadnought Robotics - VITC, Chennai — Sept 2022 – Apr 2024

- Engineered the integration of advanced sensors into 3 autonomous robots, enhancing real-time data processing capabilities; these improvements were instrumental in achieving leading positions in 2 prestigious inter-college robotics competitions.
- Contributed in the building of AUV which qualified 2nd in TAC Challenge - 2024, Norway

Publications

Advancing IoT Interoperability: Dynamic Protocol Translation through Machine Learning for Enhanced Communication Efficiency 10.36948/ijfmr.2024.v06i04.24869 — July 2024

Neeta Lokhande, Rajendra Agrawal, *Aneesh Raskar*

Waste Management Optimization Using Reinforcement Learning Algorithm Journal of Innovations in Data Science and Big Data Management, 3(2), 1–10. — May 2024

Neeta Lokhande, *Aneesh Raskar*

Projects

Computational Offloading using Deep Learning | *Python, TensorFlow* — Live

- Implemented process distribution strategies that were tailored to specific workload characteristics, resource utilization, and network bandwidth constraints, leading to enhanced system efficiency.

NLP-Driven Resume Parser and Job Matching | Python, HuggingFace, PyTorch, MERN Stack — GitHub

- Designed an NLP-based resume parsing solution that identifies key skills and experiences, enabling precise matching to suitable job roles. This tool actively suggests relevant job openings to candidates.

Real-Time Crime Detection using Deep Learning | *Python, TensorFlow, Open-CV* — GitHub

- Implemented a robust LSTM-based system capable of detecting and classifying criminal behaviors in CCTV footage, achieving impressive performance metrics (precision: 87%, recall: 84%).

Energy-Efficient Smart Irrigation System | *Python, SciKit-Learn, Arduino, Blynk* — GitHub

- Improved agricultural efficiency by 89% by developing an advanced IoT irrigation system. Leveraged real-time sensor data and decision tree algorithms to optimize water usage and maximize crop yield.

Drowsiness Detection leveraging Machine Vision | *Python, SciKit-Learn, Open-CV* — GitHub

- Created a machine learning algorithm focused on fatigue detection, processing 5 data points and 15+ factors; increased driver alertness and contributed to a notable reduction in incident reports over a six-month period.

Technologies

Languages: C++, C, Java, Python, JS, Node.js

Databases: MongoDB, SQL

Frameworks: TensorFlow, PyTorch, OpenCV, Scikit-Learn, React.js, Flask, Arduino

Version Control: Git, GitHub