Aneesh Raskar

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Education

Vellore Institute of Technology, Chennai, B.Tech in Computer Science with Specialization in AI and ML	Sept 2021 – Present
	CGPA: 8.10

Experience

Full Stack Developer Intern, Cliff Ventures [Moneyy.ai] — Feb 2025 – Present

- Actively engaged in the development and standardization of RESTful APIs for Moneyy.ai, focusing on performance and scalability.

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

- Developed and optimized the Exception-V3 model, achieving a remarkable 93% diagnostic accuracy for Diabetic Retinopathy on the IDRiD dataset, contributing to enhanced patient outcomes and early intervention efficiencies across healthcare providers.
- Streamlined company operations by 15%, improving efficiency, and reducing complexity.

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

- Designed and implemented event execution and community outreach for more than 10 events and 4 hackathons, engaged more than 250 students and promoting collaboration across campus, leading to the formation of 3 new technical initiatives.
- Promoted from a management team member to the management lead in July 2023, then to the board in January 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* — **GitHub**

- Analyzed operational metrics and identified key bottlenecks within existing systems, resulting in targeted adjustments that improved system efficiency by more than 30%, while simultaneously reducing server downtime by 15%.

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

- Developed an NLP-driven resume parsing solution that enhanced candidate-job matching accuracy by 40%, enhancing user satisfaction metrics while maintaining an impressive precision rate of 90%.

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, PostgreSQL

Frameworks: TensorFlow, PyTorch, OpenCV, Scikit-Learn, React.js, Django, Flask, Arduino, Design Patterns, Data Structures

Version Control: Git, GitHub