Aneesh Raskar

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Education

Vellore Institute of Technology, Chennai, B.Tech in Computer Science with Specialization in Artificial Intelligence and Machine Learning — Sept 2021 – 2025

CGPA: 8.10

Experience

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

- Responsible for the development, standardization, and integration of RESTful APIs and focusing data encryption for Moneyy.ai, ensuring performance, scalability, and security using Django Rest Framework and AWS Cloud Services.

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

- Developed and optimized the Exception-V3 model, achieving remarkable diagnostic precision 93% for diabetic retinopathy in the IDRiD data set, contributing to improved patient outcomes and early intervention efficiencies between healthcare providers.
- Streamlined company operations by 15%, improving efficiency, and reducing complexity.

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

- Lead event execution and community outreach for more than 10 events and 4 hackathons, engaged more than 500 students individually, promoting collaboration across campus.
- 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

- Integrated advanced sensors into 3 autonomous robots, boosting real-time data processing and securing top ranks in 2 inter-college robotics competitions.
- Contributed to building an Autonomous Underwater Vehicle (AUV) that secured 6th place in TAC Challenge - 2024, Norway

Publications

Advancing IoT Interoperability: Dynamic Protocol Translation through Machine Learning for Enhanced Communication Efficiency DOI: 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

Collaborative Vehicle Localization using LSTM based Federated Learning for Trajectory Prediction | *Python, TensorFlow* — **Live**

- Built a privacy-preserving trajectory prediction system using LSTM based federated learning, improving the average displacement error by 29.2% when compared to traditional approaches.
- Implemented MrE aggregation to optimize global loss (from 0.0220 to 0.0078 across 5 client devices).

Light Weight Computational Offloading using Deep Learning | *Python, TensorFlow* — **GitHub**

- Identified system bottlenecks through operational metrics analysis, improving overall efficiency by over 30%.
- Performed model quantization, reducing complexity and size by 88% with minimal accuracy loss, cutting 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 improved the accuracy of candidate-job matching 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**

- Built 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**

- Transformed agricultural efficiency by achieving 89% accuracy by developing an advanced IoT irrigation system. Using

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, JavaScript.

Databases: MongoDB, MySQL, PostgreSQL.

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

Version Control & Containerization: Git, GitHub, Docker.
Cloud Services: AWS, GCP.