Aditya Sen

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Mugen

Area Of Interest

Problem Solving, Back-end, Python, LLMs, Back-end, Agentic AI

Education

B.Tech	**Indian Institute of Technology Roorkee**, Roorkee	GPA: 8.5/10	Oct 2020 – July 2024
XII	**G R Global Academy. Jaipur**, Rajasthan	Percentage: 87	Mar 2018 – June 2019
X	**G R Global Academy. Jaipur**, Rajasthan	GPA: 9.5/10	Mar 2016 – June 2019

Experience

K12 Techno Service Pvt Ltd., Software Developer — Bengaluru, Sep 2024 – Pres

- Developed and maintained scalable backend systems using Django, Redis, RabbitMQ, and MySQL.
- Implemented a facial recognition system using image recognition models in a gate management solution, streamlining entry/exit for 3,000+ daily users.
- Developed an AI-powered job-listing interview platform with an AI interview solution and reports for recruiters.
- Implemented notebook scanning solution to extract and analyze teacher signatures and student details, automating the correction update workflow.
- Learned to write optimized APIs, leverage system design principles, and build end-to-end backend solutions.

Internship

iNeuron.ai, Software Intern — Remote, June 2023 – Aug 2023

- Worked over Money Laundering detection project, focusing on data modeling, data cleaning, and machine learning model development.
- Developed models to detect potentially fraudulent financial transactions indicative of money laundering by analyzing transaction data and customer behavior patterns.
- Applied both supervised and unsupervised learning algorithms for anomaly detection and classification tasks.

Projects

World Quant University, Applied Data Science Lab — Certificate

- Completed a comprehensive data science program involving hands-on projects with real-world applications in machine learning and data analysis.
- Developed and implemented machine learning models such as linear regression, logistic regression, decision trees, random forests, ARMA, GARCH, and k-means clustering.
- Applied advanced techniques including data cleaning, feature engineering, and hyperparameter tuning to optimize model performance and address issues like data imbalance and overfitting.

Autonoums Underwater Veicle — Github Repo

- Worked with team to design AUV for deep sea exploration

- Code Arduino for maneuvering logic and gripper control.
- Implement PID for stable and accurate movement.Also leverage ROS Arduino with Pyserial library for serial communication.

Awards / Academic Achievment

- Selected Delegate for Havard Project for Asian and International Relations 2023 (HPAIR)
- 294th rank globally in August CodeRush by Newton School
- Expert level (1692) coder over codeforces and active member over online judges.
- Held position of Technical Head in ASME IITR Student Chapter(2022-2023) and Department rank 4th.

Extra Curriculars

Event Co-ordinator Github Repo

- Conduct workshop about microcontrollers, sensor and actuator.
- Give live demonstration of project building: Pick N Place Robot

Technologies

Languages: Python, SQL, C++, Javascript

Technologies: FastAPI, Django, NodeJS, React, System Design, Data Structures and Algorithms, Python-Libraries (such as Numpy, Matplotlib, Pandas, SciPy, Scikit Learn, Py-Torch, TensorFlow)