ANUBHAV KUMAR

Aspiring Computer Science Engineer
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EDUCATION

Lovely Professional University **Aug-2023 – Present**
Bachelor's in Computer Science and Engineering - ***CGPA – 7.37*** *Jalandhar*

Course Work: Artificial Inelligence, Machine Learning, OOPS, Operating Systems, Data Structures and Algorithms, Programming

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java
- **Frontend Development:** HTML, CSS, JavaScript
- **ML/Data Tools:** NumPy, Pandas, scikit-learn, XGBoost, Matplotlib, RandomForest
- **Core CS:** Data Structures & Algorithms, OOP
- **Other:** Cloud Computing (basics), NLP, AI concepts

ACHIEVEMENTS

- *Leading student tech initiatives and managing hackathons & bootcamps.*
- Hackathon Finalist – ML Innovation Prototype (2024)
- 2nd Runner Up (Team) – 24-hour Hackathon (2024)
- Runner-up – Inter-school Badminton & Kho-Kho competitions

PROJECTS:

Renewable Energy Predictor:

- Developed an Random Forest-based forecasting model to predict solar energy output with 85%+ R^2 accuracy. Integrated feature tuning (temperature, irradiance, weather parameters) and deployed via an interactive Streamlit dashboard for real-time user inputs and visualizations.

Process Scheduler Simulator:

- Built a Python simulator implementing **FCFS, SJF (preemptive & non-preemptive), Priority, and Round Robin** scheduling. Added **Gantt chart visualizations** and automated calculation of key metrics like **waiting time, turnaround time, and throughput** to demonstrate trade-offs in CPU scheduling.

AI Chatbot Moderator:

- Designed an **NLP-powered chatbot** that leverages **regex-based text filtering** to identify and block offensive, abusive, or spam content. Simulated group chat interactions, providing safe conversation flow and showcasing **rule-based moderation in Python**.

News Aggregator:

- Created a **static news reader UI** using **HTML/CSS**, featuring structured layout for headlines, summaries, and links. Focused on **clean design and responsive styling**, serving as a prototype for future API-based dynamic news platforms.

Hall Effect Sensors Simulation:

- Modeled the **Hall Effect principle** in Python to classify semiconductors based on magnetic field interactions. Simulated current flow, voltage response, and material properties, with visual outputs to aid in **understanding sensor behavior**.

CERTIFICATIONS:

- Machine Learning Made Easy
- Cloud Computing – NPTEL
- Python:- Basic to Advance – Udemy
- Dynamic Communication Skill for Career Success