Raunit Patel

Roll No. : 220150015
B.Tech - Data Science and Artificial Intelligence
Minor in Computer Science and Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.92 (Current)	2022-Present
B.Tech. Minor	Indian Institute of Technology, Guwahati	8.0 (Current)	2023-Present
Senior Secondary	CBSE Board	96.4%	2022
Secondary	CBSE Board	96.4%	2020

PROJECTS

- **Interstate Bus Management System** *March 2024 - May 2024*
  Course Project, Database Management Systems Github
  - Developed a full-stack system using **Express.js**, **React.js**, and **PostgreSQL**, featuring secure **JWT-based** user authentication and protected routes.
  - Built and optimized RESTful APIs for server-client communication, and enhanced **SQL queries** to efficiently handle Create, Read, Update, Delete (**CRUD**) operations.
  - Unified and developed an intuitive **admin dashboard** for administrators to manage bus schedules, monitor bookings, and view system analytics in real-time.

- **NewsMood Analyzer** *May 2024 - June 2024*
  Even-Semester Project, Coding Club, IIT Guwahati Github
  - Designed Django-based web application that provides users with secure, insightful sentiment analysis and visualization of real-time data trends.
  - Implemented text preprocessing for **NLP**, enhancing data quality for sentiment analysis. Applied **RoBERTa** model for accurate sentiment assessment of news articles and integrated **NewsAPI** for real-time news retrieval.
  - Utilized **Plotly** for dynamic **data visualization**, enabling intuitive exploration and analysis of sentiment trends.

- **Tic Tac Toe** *Feb 2024*
  Personal Project Github, Website
  - Built an interactive Tic Tac Toe game using **HTML**, **CSS**, and **JavaScript**, featuring both two-player mode and single-player mode against the computer.
  - In single-player mode, the game leverages the **Minimax algorithm** and an optimized version with **Alpha-Beta pruning** to provide challenging **AI opponents**.

- **MintSem** *Jan 2024 - Feb 2024*
  Kriti, Inter-Hostel Technical Competition Github
  - Successfully streamlined a **blockchain** and **NFT-based system** for managing academic records, leveraging **IPFS** for decentralized storage and **genAI** for NFT creation.
  - Generated **smart contracts** for secure issuance and verification, integrated a user interface for easy access, and utilized **MongoDB** for data management.

TECHNICAL SKILLS

- **Programming**: C, C++, Python
- **Web Technologies**: HTML, CSS, Javascript, ReactJS, NodeJS, Django*
- **Database Management**: SQL, PostgreSQL
- **Tools**: Numpy, Pandas, Scikit-learn, Pytorch*
- **Miscellaneous**: Git, Github

* Elementary proficiency

KEY COURSES TAKEN

- **Mathematics**: Applied Probability & Random Processes, Linear Algebra, Basic Calculas
- **Computer Science**: Introduction to Computing (Theory & Lab), Data Structures & Algorithm*(Theory & Lab), Database Management Systems(Theory & Lab)
- **Data Science**: Introduction to Data Science, Statistical Foundations for Data Science, Introduction to AI*
- **MOOC's**: Deep Learning Specialization by DeepLearning.AI

* Awarded AA grade

ACHIEVEMENTS

- **Amazon ML Summer School 2024**, chosen for the summer ML program at Amazon. *2024*
- **3rd Position**, Kriti, Inter-Hostel Technical Competition(Digital Identity module). *2024*
- **Jee Advanced 2022**, secured **All India Rank 2132** among 150,000 students. *2022*
- **Jee MAINS 2022**, ranked in the top **1 percent** of one million applicants. *2022*
- **NTSE 2020**, ranked among the **top 2000 students** out of a **million**. *2020*

POSITIONS OF RESPONSIBILITY

- **Web Development Head**, Student Alumni Interaction Linkage (SAIL), IIT Guwahati *May 2024 - Present*
  - Currently leading a team of 10 executives, and successfully created Yearbook for graduating batch of 2024.