Tanisha Vijayvargiya

Roll No.:230123065

B.Tech - Mathematics and Computation

Indian Institute Of Technology, Guwahati

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	7.40 (Current)	2023-Present
Senior Secondary	CBSE Board	90%	2023
Secondary	CBSE Board	97%	2021

EXPERIENCE

- **NoQs Digital** *May 2024 - June 2024*
  Growth & Strategy Intern Remote
  - Web Scraping: Implemented efficient web scraping solutions to gather, analyze, and organize large datasets from various online sources.
  - Email Marketing: Designed and executed targeted email campaigns to placement offices of colleges, aimed at increasing engagement and conversion rates.

PROJECTS

- **EnergyChain: Blockchain-Based Energy Trading Platform** *Jan. 2025*
  Group Project GitHub
  - Blockchain Integration: Developed a decentralized platform for carbon credit and electricity trading using Solidity and zk-SNARKs for privacy-preserving transactions.
  - IoT & Real-Time Data: Integrated IoT devices and smart meters to track and validate energy consumption in real-time.
  - Decentralized Storage: Utilized IPFS for secure, immutable data storage and Alchemy for blockchain transactions.
  - Peer-to-Peer Trading: Implemented smart contracts to automate and facilitate transparent peer-to-peer energy trading.

- **Image Classification: ML Model** *November 2024*
  Personal Project GitHub
  - Preprocessed image data using **Haar Cascade** for face detection, ensuring relevant features were extracted.
  - Applied **wavelet transformation** on images to enhance features, capturing detailed texture and spatial information.
  - Developed and trained an AI model effectively to classify images into five distinct celebrity categories accurately.

- **Portfolio Diversification** *Aug 2024*
  Finance and Economics Club, IITG GitHub
  - Conducted **fundamental analysis** of stocks across multiple sectors to assess performance and market potential.
  - Analyzed financial metrics such as the **P/E ratio** and **ROE ratio** to evaluate company stability and growth prospects.
  - Formulated **stock allocation strategies** based on the risk-reward ratio, optimizing returns while minimizing portfolio risk.

SKILLS

- **Programming**: *Python, C/C++, *SQL
- **Web Technology**: HTML*, CSS*, JS*
- **Data Analysis**: NumPy, Pandas, MatPlotlib, Seaborn
- **Operating System**: Windows, Linux* ** Elementary proficiency*

KEY COURSES TAKEN

- **Computer Science**: *Data Structures and Algorithms, Digital Design, Introduction to Computing Laboratory, Database Management System*, Computer Architecture*
- **Mathematics**: Linear Algebra, Discrete Mathematics, Probability & Random Processes, Number Theory, Financial Engineering*
- **Finance**: Fundamental Analysis, Learn Web3 (Sophomore), Web3 Unveiled.
- **Data Science**: Summer Analytics, Machine Learning basics ** Ongoing*

POSITIONS OF RESPONSIBILITY

- **Associate Manager**, Finance and Economics Club, IIT Guwahati *Present*
  - Exploring and analyzing **decentralized finance (DeFi) and Web 3.0 technologies** to drive innovative solutions and strategies for the club. Learning more about blockchain technologies and underlying fundamentals.

- **Organiser**, Nexus, Techniche *Nov. 2023 - Sept. 2024*
  - Conducted a Corpo-Management Conference, connecting entrepreneurship and management enthusiasts with industry visionaries, and cooperated with a team of over 25 individuals.

- **Senior Executive**, E-Cell, IIT Guwahati *Present*
  - Providing mentorship to various startups of our college and collaborating with the incubation center of IIT Guwahati to provide necessary financial aid to the final-stage startups.

ACHIEVEMENTS

- **JEE Advanced 2023**, Secured **AIR 2308** among 0.15 million candidates appearing for JEE Advanced. *2023*
- **JEE Mains 2023**, Secured **99.02 percentile** among 1.02 million candidates appearing for JEE Mains. *2023*
- **Summer Analytics Hackathon**, Finished amongst top 10 percentile among over 3k candidates participated. *2024*
- **Hackathon by Indian School of Business**, 5th position amongst over 100 students participated. *2024*