



ANANYA MAHATO | 19MT30003

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METALL & MAT.ENG. METALL.ENG. (M.Tech Dual 5Y)

MINOR in COMPUTER SCIENCE & ENGG. (B.Tech 4Y)

MICRO SPL. in ARTIFICIAL INTELLIGENCE AND APPLICATIONS



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	M.TECH Dual Degree 5Y	IIT Kharagpur	8.58 / 10
2018	Central Board of Secondary Education	D.A.V Public School, Bistupur	89.2%
2016	Indian Certificate of Secondary Education	J.H.Tarapore School	94%

COMPETITION/CONFERENCE

- Secured **Gold Medal** in Inter IIT Tech Meet 9.0 for a mid prep event of **ISRO's Web Based Visualization Tool for Astrosat's Observation**
- Secured **Gold Medal** in Inter IIT Tech Meet 10.0 for a high prep event of **Digitalalpha's SEC Filing analyzer** for SaaS companies
- Among the **Top 15** finalists of NetApp **Hackathon** having **1.5k+ participants**

INTERNSHIPS

- OCG | Software Development Engineering Intern** Jun'22-Present
- Developed a telegram chatbot to convert text messages into signals understood by **cornix** to derive conclusions on profit/loss
 - Built using **BotFather** and used **regex** to extract text from the channel and converted it into signal parsed in a format used in HFT
 - Worked with **solidity** and wrote **smart contracts** for respective projects, leading to building a pipeline for auditing a smart contract
- Digitalalpha | Software Development Engineering Intern** May'22-Jul'22
- Developed an **interactive dashboard** capable of analyzing **SEC Filings** of all US Listed SaaS companies for all available years of data
 - Built frontend using **Typescript** and **React** and backend using **Django-Rest-Framework** with **PostgreSQL database**
 - Wrote scripts to formularize base and derived financial metrics, modularized and documented code for collaborative working
 - Developed a scraper for text extraction for 10-K, 10-Q and 8-K filings using **Beautiful Soup**, and automated it using a **bash** script
- IBM | Software Development Engineering Intern** Mar'21-May'21
- Developed a platform to visualize stock market **indicators** such as **Bollinger Bands**, **RSI**, **MACD** along with their entry and exit points
 - Plotting of indicators was done using **Chart JS** and **React Stock Chart** along with a **React** based frontend
 - Backend was developed in **Flask** implementing certain indicator strategies and highlighting the BUY/SELL points to estimate profit/loss
 - Wrote blogs and articles to provide exposition to the various indicators and technical terms and render them using **react-markdown**

PROJECTS

- Edugeeks** Mar'22-Jun'22
- Developed an online learning platform for users and admins containing videos and study material having **1k+ active users**
 - Frontend has been designed in **React** and backend using **Django-rest-Framework** and **MySQL** facilitating various **CRUD** Operations
 - OTP** based authentication was done using **Firestore Authentication** and hosted in **AWS Amplify**. **S3** is used for data storage
- ISRO's Astrosat Visualization Tool** Mar'21-May'21
- Developed a **visualization tool** for detecting and displaying information of the selected star including relevant publications for the same
 - The virtual space was developed using **Three.js**, **Tween.js** and **d3.js** adding glow and increasing its size when clicked
 - Star name was displayed on hover, search bar and grid controls including panning were provided to add additional guide
- Wikimedia, Open Source Contributor** Mar'21-May'21
- To study reader's behavior across articles in any language and comparing them via monthly dumps of **Wikipedia Clickstream** data
 - Wrote python scripts with **mwapi** to list the articles in different languages and **Sankey Diagram** by **Plotly** was used to visualize it

SKILLS AND EXPERTISE

Primary: C | C++ | Linux | JavaScript | Python | HTML5 | CSS3 | React | PostgreSQL
Secondary: Bash | SQL | Flask | Node.js | Express.js | git | Bootstrap | jQuery | Django | Django Rest Framework | Solidity
Worked with: Firestore | Heroku | AWS | MongoDB | GCP | Figma

COURSEWORK INFORMATION

Programming and Data Structure | Probability and Stochastic Processes | Algorithms | Machine Learning | Big Data

POSITIONS OF RESPONSIBILITY

- Composit | Web Development Head**
- Guided **20+** students for developing the composit 2022 website. Lead weekly scrum meetings and managed various teams
- Kharagpur Open Source Society | Advisor**
- Conducted various workshops on **Python**, **Shell Scripting** and more addressing **1k+ attendees** and mentored them throughout
 - Actively worked on the KWOC'20 website having **2k+ registrations**, resolved bugs and timely updated the database
- Quant Club | Senior Quant Researchers**
- Implemented various indicators on **backtrader** (python backtesting framework) and worked on implementation of **limit order book** data
 - Conducted workshops and lead a team of **30+ members** to organize Summer of Quant event with a footfall of **700+ participants**

EXTRA CURRICULAR ACTIVITIES

- Mentored and resolved doubts for **5k+** students at PEP Coding as a class teaching assistant
- Attended and completed the Combined Annual Training Camp of 1 Bengal EME NCC & 3 Bengal Tech Air Sqn NCC, IIT Kharagpur
- Interned with startups based on RMSOEE namely, Numo Uno and Where's My Cycle as a frontend developer