Soumyadip Mukherjee

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Education

Vellore Institute of Technology (CGPA: 8.85)	Chennai, India
Bachelor of Technology in Computer Science and Engineering	2022 – 2026
St. Stephen's School (ISC: 90.5 , ICSE : 93.4 %)	Kolkata, India
Computer Science	2021

Technical Skills

Programming Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Flutter, Dart.

Technologies and tools: AWS, EC2, DynamoDB, S3, SQS, Lambda, React, Express.js, Pandas, NumPy, Matplotlib, Twilio, Firebase.

Experience

Summer Research Internship — Certificate
Vellore Institute of Technology, Chennai, India — June 2024 – July 2024

- Developed advanced deep learning algorithms for processing and analyzing 12-lead ECG images, trained **Residual Neural Networks (ResNets)**, achieving more than **90% accuracy** in detecting cardiac abnormalities. Presented the research paper in **International Conference on Innovation, Sustainability and Applied Sciences (ICISAS 2025), Dubai**.

Key Projects

CureLink -Full-stack Medical Store App | *ReactJS,Express, MongoDB, Firebase, Razorpay* — GitHub link

- Built a full-stack web application utilizing **React, Redux, Node.js, and MongoDB**; implemented more than 10 administrative tools for efficient inventory management and secure online medicine purchases with JWT authentication.

Twitter Trends Analyzer | *Selenium, Docker, MongoDB, Flask* — GitHub link

- Created a Twitter Trends Analyzer using **Selenium** scrape the data and use **Docker** to install the Chrome driver to scrape the Twitter trending tab, store data in **MongoDB**, and use a **Flask** website to fetch and display the top trending topics of the day based on 24 hours of data.

DevSmith -AI-powered Developer Tool | *Python, Gemini API, HTML, CSS, JavaScript* — GitHub link

- Developed an AI-powered **VS Code extension** with Gemini API for real-time debugging and **code optimization**, enhanced collaboration with an interactive user forum, and streamlined developer workflows with a 25% faster issue resolution.

CrowdLift - Crowdfunding Platform | *Node.js, Express.js, Razorpay, MongoDB, React* — GitHub link

- Engineered a **MERN stack** scalable crowdfunding platform with **Razorpay** integration, boosting investor engagement through idea showcases and achieving a 99.9% transaction success rate.

Achievements

2nd Prize - ACM VIT Coding Contest: 2nd place in a competitive contest with 200 participants.

3rd Prize - Bitwars 2.0: A coding contest with 650+ participants from South India.

CodeChef 3-Star (Rated 1635*): Achieved Rank 221 in Starters138. *(Profile Link)*.

Leetcode (Rated 1815*): *(Profile Link)*.

Top 30 Teams - VITSIH Hackathon: Awarded for exceptional performance in the hackathon.