

# Shubhayu Majumdar

Portfolio: shubhayumajumdar.tech

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## EDUCATION

- **Techno Main Saltlake** Kolkata, India  
*B.Tech in Computer Science (Artificial Intelligence and Machine Learning)* Nov 2020 - Jul 2024  
Second year with **9.54 CGPA**

## SKILLS SUMMARY

- **Languages:** C, C++, Python, SQL, Bash, Dart
- **Frameworks:** PyTorch, TensorFlow, Keras, Django, FastAPI, Flutter
- **Tools:** Git, MySQL, SQLite, MongoDB
- **Platforms:** Linux, Web, Raspberry Pi, GitHub, Google Cloud Platform, Heroku, Firebase
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking

## EXPERIENCE

- **Indian Institute of Technology Kharagpur** Kharagpur, India  
*Machine Learning Research Intern (Full-time)* May 2022 - Aug 2022
  - **Data Collection:** Developed a custom scraper to build a dataset with **35600 user data** and **73000 images**.
  - **Two Branch Neural Network (Mixed Data):** (Work in progress) Developing a model with **CNN** and **MLP** for processing mixed data to predict popularity of Instagram posts.
- **Institution's Innovation Council - TMSL** Kolkata, India  
*Head - Technical Team (Part-time)* Nov 2021 - Aug 2022
  - **Resource Forum Upgrades:** Built custom scraper for performance to update the latest resources effectively reducing latency by **12 secs**. Created application to validate **over 1000** hospital locations using Google Maps API.
  - **REST API for RBAC and Mailing Service:** Built RBACs to scale several in-house projects. Impacted more than **250+ users**. Programmed application for mailing service used in more than **5 projects**.
  - **Flutter Event App:** Designed and coded a cross-platform app for Envisage'22. Integrated Cashfree for in-app payments. Impacted more than **1200 users**, resulting in a **30% increase** in participant count.
- **MyBondhu** Remote  
*Backend Developer Intern (Full-time)* Apr 2021 - Jun 2021
  - **Data Collection:** Designed an application to fetch COVID-19 medical resource leads and updates based on location.
  - **VAPT for internal apps:** Conducted vulnerability assessment on internal apps and **report critical issues**.
- **Techobytes Technologies** Remote  
*Cyber Security Intern (Full-time)* Jun 2020 - Aug 2020
  - **Port Scanning Tool:** Researched and Implemented port scanning tool for **cross-platform** use with proper documentation supporting Windows, Mac, Linux, and Termux. The tool has been featured on **OpenBase**.

## PROJECTS

- **Envisage App - official app of Envisage '22 (Cross-platform development, Event App):** Research-oriented, full-stack, event management app with an integrated payment gateway bringing a **30% increase** in participation. Tech: **Python, Dart, FastAPI, Flutter, Firebase, Cashfree** (May 2022)
- **Discord Study Bot (Web Development, Discord API):** Open source, discord bot to record study time of members and make a leaderboard to increase engagement. The bot is currently used in the discord server of **IIT Hyderabad** with more than **6000 users**. Tech: **Python, Discord API, MongoDB, Heroku**. (Apr 2021)
- **Cowin Notifier (Cowin API, Twitter API):** COVID-19 vaccination slots availability, provided by CoWIN were fetched and tweeted based on location, effectively increasing the chances of booking slots exponentially. A Total of **4000 tweets** are done daily. Tech: **Python, Heroku, Raspberry Pi, Tweepy** (May 2021)

## PUBLICATIONS

- **Article: Vulnerability Reports (Cybersecurity):** Published detailed information about several vulnerabilities found by me on websites and web apps with descriptive exploits. Tech: **Bash scripting, Python, APIs** (Present)

## HONORS AND AWARDS

- Secured **Global 64th rank** in **Reply Code Challenge 2022** - Teen Edition.
- Awarded **Swiggy Bug Bounty Hall of Fame**. Acknowledged by **NCIIPC, Govt of India** and **NCSC, Govt of UK**.
- **Certified Network Security Specialist** from **ICSI, UK**.

## VOLUNTEER EXPERIENCE

- **Google Developer Student Club Core Member - ML Team** Kolkata, India  
*Conducted online and offline technical training impacting over 200 students.* Aug 2022 - Jul - 2023
- **Event Organizer at Institution's Innovation Council - TMSL** Kolkata, India  
*Executed events, oversaw hackathons, and delivered workshops reaching over 300 developers.* Jan 2022 - Aug 2022