

Shubhayu Majumdar

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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, Bash, Dart
- **Frameworks:** PyTorch, TensorFlow, Keras, Django, FastAPI, Flutter
- **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):** Developed an AI 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**.
- **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

- **ConnecTen App (Flutter Dart, Firebase):** Mobile app to share social links and build connections seamlessly with nearby people **without using internet** targeted for meetups and gatherings. **Ranked 3rd in Hackday** by Cloud Community Days Kolkata'22. (Sept 2022)
- **Envisage App (Python, FastAPI, Dart, Flutter, Firebase, Cashfree):** Research-oriented, full-stack, event management app with an integrated payment gateway that impacted more than **1200 users**, bringing a **30% increase** in participation. (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)

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 Developers Group, Kolkata - App & Web Team** Kolkata, India
Build backend for DevFest Kolkata'22 and Internal app for event management. Aug 2022 - Aug 2023
- **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