

Debayan Khan

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Kolkata, West Bengal, India

EDUCATION

Indian Institute of Technology, Madras <i>BS in Data Science and Applications</i>	Jan. 2024 – Present <i>Chennai, Tamil Nadu, India</i>
Tarakeswar Mahavidyalaya <i>Higher Secondary (Science, PCM with CS)</i>	2021 – 2023 <i>West Bengal, India</i>

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, SQL, PostgreSQL, Bash
Web Development: Flask, Jinja2, HTML, CSS, Bootstrap, Tailwind, JSON
Systems & Linux: Linux Administration (Systemd, Daemons, File Systems, Asusd), Shell Scripting
Networking & Cloud: DNS Management, SSL/TLS, Cloudflare, SMTP, Web Hosting, IP Addressing, Routing
Tools: Git, GitHub, Google Cloud Platform (GCP), QGIS

PROJECTS & OPEN SOURCE

MediConnect | Python, Flask, SQL

- Built a hospital management website using Flask to handle patient records and doctor appointments.
- Set up a secure login system and used SQL to store user data reliably.
- Designed the user interface with Bootstrap and Tailwind so it works well on mobile and desktop.

BattLuv | Python, CustomTkinter, Windows GUI

- Developed a modern Windows desktop app using CustomTkinter to calculate and visualize laptop battery health.
- Automated the analysis of system power reports (via powercfg) to display real-time capacity and wear percentages.

Ventus | Python, Linux System Programming, System Tray

- Developed a Linux system tray app that displays real-time fan speeds and CPU temperatures.
- Wrote Python scripts to read data directly from hardware sensors (asusd) without heavy background usage.
- Published the source code on GitHub with a guide for installing it on different Linux distributions.

BilluSwitch | Python, CLI Utility, Linux Automation

- Created a command-line tool to toggle system configurations on Linux.
- Wrote clean, modular code to make it easy to add new features or fix bugs.

EXPERIENCE

Regional Coordinator (Kolkata) <i>Bandipur House, IIT Madras BS Degree</i>	Nov. 2024 – Present <i>Remote / Kolkata</i>
• Organize student activities in the Kolkata region and act as the main point of contact between students and the college admin.	

- Manage communication groups to keep students updated on academic programs.

Event Management Coordinator

Oct. 2024 – Apr. 2025

<i>Bandipur House, IIT Madras BS Degree</i>	<i>Remote</i>
• Planned schedules and logistics for student meetups and social events.	

- Worked with volunteer teams to ensure events ran smoothly and on time.

CERTIFICATIONS & ACHIEVEMENTS

Bharatiya Antariksh Hackathon (2024 & 2025) – Participated in Online Rounds (ISRO)

Foundational Certificate in Programming & Data Science – IIT Madras

AI/ML for Geodata Analysis – IIRS-ISRO

Geospatial Technology for Digital Agriculture – IIRS-ISRO

Introduction to Cloud using GCP – IIT Madras

SQL (Basic) – HackerRank