Kabir Roy

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Professional Summary

Results-driven Computer Science undergraduate specializing in **Machine Learning, Blockchain, and Full-Stack Web Development**. Demonstrated experience in **AI model design, data analysis, and secure blockchain systems** using Hyperledger Fabric. Proven leadership as **Vice President of Bit by Bit Club**, hosting large-scale technical events with 200+ participants and mentoring peers in AI and Web technologies.

Core Competencies

Machine Learning • Blockchain (Hyperledger Fabric) • MERN Stack Development • Data Analytics • Model Training • Python Automation • AI Systems • Neural Networks • Full-Stack Web Apps • Cybersecurity Awareness

Education

VIT Bhopal University — 2023 – 2027
B.Tech in Computer Science and Engineering — CGPA: 9.28 — Bhopal, India

Professional Experience

Defence Research and Development Organisation (DRDO) — May 2024 – June 2024
Summer Intern — New Delhi, India
- Engineered a private **Hyperledger Fabric** subnet, enhancing secure data-sharing efficiency by **30%**.
- Configured and tested **5 blockchain nodes** to simulate restricted-network communication.
- Collaborated with **3 senior researchers** to optimize node performance and streamline documentation.

Madhya Pradesh Police — Apr 2024 – May 2024
Student Intern — Cybercrime & Data Analysis Division — Bhopal, India
- Analyzed **1,000+ cybercrime records** to identify fraud patterns and improve detection workflows.
- Developed **3 automated dashboards** in Python & Excel, reducing report generation time by **25%**.
- Contributed to official documentation and supported data-driven investigation reports.

Academic & Technical Projects

AI-Based Electronic Inhaler | *Python, Machine Learning, Sensors* — 2024
- Designed an ML model achieving **92% accuracy** using **200+ sensor readings** for asthma risk prediction.
- Implemented data preprocessing, model training, and real-time monitoring pipeline.

Real-Time Hospital Resource Detection Web App | *MERN Stack* — 2024
- Developed and deployed real-time hospital tracking app used by **15+ hospitals**, improving update speed by **40%**.
- Built REST APIs and interactive dashboards for users, hospitals, and administrators.

Carbon Footprint Survey System | *Kotlin, MySQL* — 2024
- Built Android application collecting **500+ survey entries** on daily energy usage and carbon output.
- Integrated secure backend database for efficient data storage and analytics.

Face Recognition Attendance System | *Python, OpenCV* — 2023
- Achieved **95% recognition accuracy** using Haar Cascade; automated attendance logging reduced manual effort by **80%**.

Technical Skills

Languages: Python, C++, Java, JavaScript, HTML, CSS, SQL
Frameworks/Libraries: MERN Stack, TensorFlow, OpenCV, Node.js, Express.js, React
Developer Tools: Git, VS Code, Android Studio, Jupyter Notebook
Operating Systems: Linux, Windows

Leadership & Campus Involvement

Bit by Bit Club   **2023 – Present**
Vice President (Former Student Coordinator)   *VIT Bhopal University*
  – Orchestrated a major coding event with **200+ participants**, increasing engagement by **50%**.
  – Promoted to **Vice President** for leadership and execution excellence in technical events.
  – Organized **3+ workshops** on AI, ML, and Web Development, mentoring peers and new members.

Linpack Club   **2023 – Present**
Technical Team Member   *VIT Bhopal University*
  – Collaborated on robotics and circuit-based challenges such as *Circuit Sprint*, securing a **Top 10 finish**.

Advitya Fest 2024   **2024**
Event Organizer   *VIT Bhopal University*
  – Directed and executed **3 major tech events**—*Cosmic Escape Room* and *Code Tycoon*—with **200+ attendees**.