Kunal Mukherjee

B.Tech, Computer Science & Engineering Student

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Summary

Computer Science & Engineering undergraduate with a strong foundation in **C++, Python, and Java**. Skilled in building scalable full-stack applications using **React.js, Flask, and Firebase**. Experienced in deploying **ML/AI models** with high accuracy. Proven team management (led 10+ member teams) and academic excellence (**CGPA: 8.85**).

Education

- **VIT Bhopal University** — May 2027
  B.Tech, Computer Science & Engineering (CSE Core) — **CGPA: 8.85/10.0**
- **B.B.M Institution**, West Bengal (Class X & XII) — 2020 – 2022
  High School: **91.8%** — Secondary Education: **94.8%**

Technical Skills

- **Programming Languages:** Java, Python, C, C++, MATLAB
- **Web Technologies:** HTML, CSS, JavaScript, React.js, Flask
- **Databases:** MySQL, Oracle, MongoDB, PostgreSQL
- **Cloud Platforms:** Firebase, Amazon Web Services (AWS)
- **Tools and Frameworks:** Git, GitHub, Visual Studio Code, Jupyter Notebook, Android Studio, TensorFlow.js

Projects

- **AI Fitness Form Assistant** — *React, Python, Flask, TensorFlow.js*
  - Built AI fitness assistant using **TensorFlow.js** and **Mediapipe**, achieving **95% accuracy**.
  - Designed scalable architecture supporting **75+ concurrent users**, reducing backend latency by **30%**.
  - Integrated **Firebase** for real-time synchronization, handling **1,000+** data points per session.
- **Email Summarizer Pipeline** — *Pegasus Model, Twilio, Web Dashboard*
  - Automated NLP pipeline using **Pegasus**, reducing email reading time by **60%**.
  - Integrated **Twilio API** for cross-platform delivery, achieving **98% success rate**.
  - Dashboard processed **50+ emails daily** with under 2s per email.
- **Health & Wellness Chatbot** — *Python, Firebase, NLP*
  - Developed chatbot resolving **200+ queries** related to health.
  - Improved intent recognition accuracy to **85%** for complex queries.
  - Used **Firebase** for secure history storage, reducing retrieval time by **40%**.

Leadership & Extracurriculars

- **Recruitment Team Lead**, iCreate Technical Community: Directed **10 members**, interviewed **100+ candidates**, boosting membership by **20%**.
- **Operations Co-Lead**, Music and Band Club: Managed logistics for **5 major university events**, coordinating **15+ volunteers**.
- **Discipline Committee Member**, VIT Bhopal Boys Hostel: Oversaw **200+ students**, resolving conflicts and ensuring **100%** compliance.
- **Competition Success:** Led team strategy for AARAMBH Cricket Tournament (5-0 record champions, 2024) and secured **2nd Place** in University Talent Show (Music, 2023).

Certifications

- **Machine Learning:** Introduction to ML (NPTEL, IIT Madras); Fundamentals of AI/ML (Vityarthi)
- **Systems:** Operating System & Systems Programming (Cursa); The Bits and Bytes of Computer Networking (Coursera)