Kunal Mukherjee

B.Tech, Computer Science & Engineering Student

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Summary

Computer Science & Engineering undergraduate with a strong foundation in **JAVA , Python, and C++**. 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%**

Projects

- **AI Fitness Form Assistant**   *github.com/AI-Pushup-Trainer*
  - Developed a real-time AI system that analyzes workout posture using camera input and provides corrective feedback to prevent injuries.
  - Built using **React**, **Python**, **Flask**, **TensorFlow.js**, and **Mediapipe** for pose estimation and inference.
  - Achieved **95% posture detection accuracy**, validated across multiple exercises with testing on **75+ concurrent users**.
- **Email Summarizer Pipeline**   *github.com/EmailSummarizer*
  - Designed an automated NLP pipeline that summarizes long email threads into concise, actionable insights.
  - Implemented using the **Pegasus transformer model**, **Twilio API** for delivery, and a **web-based dashboard** for monitoring.
  - Reduced email reading time by **60%**, with **98% delivery success rate** and performance tested on **50+ emails/day**. .
- **Health & Wellness Chatbot**   *github.com/MEDIMATE*
  - Built an intelligent chatbot to answer health-related queries and provide preliminary wellness guidance.
  - Developed using **Python**, **NLP techniques**, and **Firebase** for secure user interaction and data storage.
  - Achieved **85% intent recognition accuracy**, tested on **200+ real user queries** with optimized response latency.

Technical Skills

- **Programming Languages:** Java, Python, C, C++, MATLAB
- **Web Technologies:** HTML, CSS, JavaScript, React.js, Flask
- **Databases :** MySQL, Oracle, MongoDB, AWS,Firebase
- **Core Concepts:** Data Structure and Algorithm

Certifications

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

Extracurricular Activities

- **iCreate Technical Community** (*Recruitment and Management Team Lead*): Directed **10 members**, interviewed **100+ candidates**, boosting membership by **20%**.
- **VIT Music Club** (*Operations Co-Lead*): Managed logistics for **5 major university events**, coordinating **15+ volunteers**.