Sarthak Kumar

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Education

Vellore Institute of Technology, Bhopal	Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science and Engineering, CGPA: 8.60/10	Oct 2022 – Present
Lucknow Public School	Sitapur, Uttar Pradesh
Class XII (CBSE), Percentage: 89.2%	Apr 2021 – June 2022
Lucknow Public School	Sitapur, Uttar Pradesh
Class X (CBSE), Percentage: 88.2%	Apr 2019 – May 2020

Technical Skills

Languages: Python, C, C++, Java
Web Development: HTML, CSS, JavaScript, React, Node.js
Database: MySQL, SQL, MongoDB
Tools: Git, GitHub, Figma
Platforms: Visual Studio Code, IntelliJ IDEA

Technical Projects

AI-Powered Resume Tailor | Python, NLP (spaCy, Hugging Face), React, Flask *Jan 2025 – Mar 2025*
• Developed a web platform that automatically tailors resumes to job descriptions for ATS optimization, improving keyword match scores by up to 85%.
• Integrated a Skill Gap Analysis feature that recommends courses based on missing job requirements.
• Processed 1,000+ resumes in testing phase, reducing manual customization time by 70%.

Mental Wellness Chat Companion | React, Node.js, OpenAI API, MongoDB *Sep 2024 – Dec 2024*
• Designed and built an AI-driven chatbot that provides personalized wellness exercises, daily reflections, and mood tracking.
• Implemented sentiment analysis to detect distress signals, increasing user retention by 40%.

Skill Match AI | Python, NLP, Scikit-learn, React, Flask *Apr 2024 – Aug 2024*
• Created an AI recommendation system that analyses user skills and GitHub projects to suggest tailored career paths, courses, and job openings.
• Improved recommendation accuracy to 88% using TF-IDF and cosine similarity techniques.

Certifications

- **Cloud Computing** *-NPTEL -*May 2024
- **MERN Full Stack Certification Program** —Ethnus - Apr 2025
- **Machine Learning Specialization** — DeepLearning.AI-Dec 2024
- **HTML, CSS and JavaScript for Web Developers** — Coursera -Dec 2023
- **Mastering C++Language** —Udemy -Feb 2024

Extracurricular Activities

Core Member — Fusion Club, VIT Bhopal | May 2024 – Oct 2024
• Collaborated on organizing 3+ campus events (200+ attendees each), boosting participation by **25%** through targeted social media campaigns.
• Designed promotional posters and digital content using Canva/Figma, increasing event awareness and engagement by **40%**.

Project Lead — Various College Projects | Oct 2023 – Apr 2024
• Led teams of 4–5 members in delivering 2+ academic projects, ensuring timely completion and quality deliverables.