Sarthak Kumar

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EDUCATION

Vellore Institute of Technology, Bhopal   Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science and Engineering, CGPA: 8.58/10   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, MongoDB
- **Tools:** Git, GitHub, Figma
- **Platforms:** Visual Studio Code, IntelliJ IDEA

PROJECTS

AI-Powered Resume Tailor | *Python, NLP (spaCy, Hugging Face), React, Flask*   Jan 2025 – Mar 2025
- Engineered a full-stack web platform to automatically align resumes with job descriptions, boosting users' ATS keyword match scores by up to 85%.
- Implemented NLP models using spaCy for named entity recognition (NER) to extract key skills and Hugging Face transformers for semantic analysis of job requirements.
- Developed a Skill Gap Analysis engine that identifies missing qualifications and programmatically recommends relevant online courses to bridge the gap.
- Validated system scalability and performance by successfully processing over 1,000 resumes, reducing average user customization time by 70%.

Mental Wellness Chat Companion | *React, Node.js, OpenAI API, MongoDB*   Sep 2024 – Dec 2024
- Architected and deployed a responsive web application featuring an AI-powered chatbot to provide users with personalized wellness exercises and daily mood tracking.
- Implemented a sentiment analysis pipeline to detect user distress signals in real-time, triggering automated supportive pathways and resources.
- Leveraged the OpenAI API to generate empathetic and context-aware conversational responses, creating a supportive user experience.

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.
- Achieved an 88% recommendation accuracy by implementing TF-IDF vectorization and cosine similarity algorithms to precisely match user profiles with job requirements.

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 - Coursera   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%.

Open Source Contributor   Oct 2023 – Present
- Active contributor to key open-source projects.
- Successfully resolved 13+ validated bugs by triaging issues via Code Triage and submitting high-quality pull requests, improving overall code stability and maintainability.