SARTHAK JAIN

Software Engineer Developer
9557234083 • jainsarthak97162@gmail.com • www.linkedin.com/in/sarthakJchanderia

Summary

Final-year B.Tech in Computer Science (AI) with deep expertise in Python, C++, and machine learning, complemented by strong web development skills. Experienced in building scalable, interactive web applications and AI-driven solutions. Developed impactful projects like *Mood Spotifier*, an AI-powered mood analysis and music recommendation app, and *Code Crafter*, a multi-language coding platform. Skilled in full-stack development with technologies like React, FastAPI, and Django, with robust backend experience in MySQL and MongoDB. Known for designing optimized solutions, collaborative teamwork, and applying advanced ML models to real-world challenges.

Skills

Programming Languages: Python · Java · C/C++ · PHP · JavaScript

Web Dev: HTML · CSS · React.js · FastAPI · Git · Django · Node.js

AI/ML: OpenCV · Tensorflow · Sckit-learn · Pandas · Numpy

Databases: MySQL · Oracle DB · MongoDB

Soft Skills: Communication · Analytics · Problem Solving · Teamwork and Collaboration

Education

Pranveer Singh Institute of Technology — Kanpur, India
B Tech in Computer Science and Engineering(AI) | GPA: **8.06** / 10 — 11/2021 - 07/2025

- Data Structures and Algorithms, Operating System, Computer Networks, SDLC

St Peters Sr Sec School
12th Grade | Percentage(%: **95.2** / 100 — 2021

- Computer Science, Maths, English

Projects

Mood Spotifier (MODIC) — 10/2023 - 12/2023

This project leverages Python, Django, and TailwindCSS to enable AI-driven conversations, utilizing OpenCV and Keras for mood detection. It offers cross-platform accessibility and provides personalized music recommendations based on the detected mood.

- Five out of six moods were detected perfectly in different situations, with the last mood achieving about 80% precision. Songs were played according to the detected mood with 100% accuracy.

Mental Analysis for Nations and Societies (MANAS) — 04/2024 - 06/2024

Predicts Disability-Adjusted Life Years (DALYs) from mental disorders using machine learning models. Built with Python, FastAPI and React, it supports data-driven global mental health policy decisions.

- We implemented a model using multiple classifiers, achieving 96% accuracy on the test data. This ensemble approach enhanced the model's robustness in predicting DALYs from mental disorders.

Code Crafter — 06/2024 - 07/2024

It is an interactive coding tool using ReactJS, FastAPI, MongoDB, Judge0 API for multi-language code execution, with features like a code editor and history management.

- Executes an average-length code in under 10 seconds with sub-1 second retrieval time for previous runs.

Key Achievements

Qualified GATE 2024 (CS & DA)

Top ranking at HackCBS 6.0 and Graph-E-Thon 2024

TCS CodeVita S11 Rank 1231

Certification

Applied Deep Learning & Computer Vision with Python — EduxLabs-IIT Madras

Introduction to NoSQL Databases — Coursera-IBM

Python Programming with Data Structures & Algorithms (DSA) — YBI

Hobbies/Interests

Travelling

Chess Matching

Listening Music