Sarthak Choudhary

sarthakjr14@gmail.co | https://www.linkedin.com/in/sarthak-7b6a16275/ | https://github.com/11-Sarthak

OBJECTIVE

Third-year Computer Science student skilled in C++ and Python, with experience in building recommendation systems, AI chatbots, time series–based models, and RAG-based applications. Seeking machine learning or data science roles to contribute immediately and grow rapidly.

CORE SKILLS

Languages: C++, Python, Flask, Django

Databases: MySQL

Machine Learning & Libraries: TensorFlow, Keras, OpenCV, NumPy, Pandas, scikit-learn

Cloud and Deployment : AWS , Hugging Face , Heroku , Streamlit

Tools and Technologies: Git, GitHub, FastAPI, VSCode

Competitive Programming: Code360, LeetCode, GeeksforGeeks

Soft Skills: Communication, Problem Solving, Critical Thinking

EDUCATION

Maharshi Dayanand University   Rohtak, Haryana
Btech Computer Science(cse)   GPA: 7.2   Expected Graduation: 2027

WORK EXPERIENCE

Cognifyz   Nagpur, Maharashtra
Intern, Machine Learning   June , 2025 − August, 2025
- Developed a restaurant recommendation system using collaborative filtering and content-based methods, achieving a 15% improvement in recommendation accuracy.
- Led an initiative to optimize data preprocessing pipelines, reducing model training time by 25%.
- Collaborated with the backend and data engineering teams to integrate the ML models into the production API .

PROJECT WORK

GraphMind AI   timeline:April2025 May2025
- Built an intelligent AI agent using LangChain and LangGraph's flow-based dynamic architecture .
- Implemented multiple tools and memory modules to enable multi-turn dialogues with improved contextual accuracy.
- Designed and deployed the system for demonstration with real-time interaction capabilities.

Convolutional Neural Network based Chest X-ray Detection   timeline:Feb2025 April2025
- Built and trained a CNN using Keras to classify chest X-ray images for medical diagnosis.
- Implemented preprocessing and data augmentation techniques to improve model generalization.
- Achieved high classification accuracy and demonstrated potential for assisting medical professionals.

StockVision   timeline:Jan2025 Feb2025
- Built a deep learning-powered time series analysis and stock price prediction system using LSTM networks.
- Implemented data preprocessing and feature engineering on historical market datasets to improve forecasting accuracy.
- Designed and deployed an interactive Gradio-based frontend for real-time visualization and user-friendly predictions.

LLM Chatbot   timeline:Nov 2024 Dec2024

- Built an AI chatbot using Google Gemini Pro API with session-based chat support and natural language understanding.
- Designed a clean Gradio interface for seamless human-AI interaction.
- Deployed the chatbot on Hugging Face Spaces for public access and testing.

Jarvis AI Assistant   timeline:Sep2024 – Oct2024

- Developed a voice-controlled Python AI assistant with speech recognition.
- Integrated text-to-speech functionality for natural interaction.
- Implemented inbuilt face detection feature using OpenCV for enhanced user authentication.

Spam Classifier   timeline:July2024 – Sep2024

- Built a machine learning model to classify emails as spam or normal mail with **96.77% training accuracy** and **96.68% test accuracy**, using an 80/20 train-test split.
- Leveraged TF-IDF Vectorizer and Logistic Regression for robust text classification.
- Implemented and evaluated using Pandas and Scikit-learn libraries.
- Project hosted on GitHub for version control and reproducibility.