SIDDHANT JAIN
B.E.
Computer Engineering
Thapar Institute of Engineering and Technology, Patiala

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.E.	Thapar Institute of Engineering and Technology, Patiala	8.35 (Current)	2021-2025
Class XII	CBSE Board	96.4%	2021
Class X	ICSE Board	95.6%	2019

EXPERIENCE

- **Infosys (Infosys Springboard Program)** *June 2024 - Present*
  AI/ML Intern Remote
  - **Stock Price Prediction Using LSTM Neural Networks**
    * Developed an LSTM model with Keras and TensorFlow to accurately predict future stock prices using historical data, addressing the challenges of time-series forecasting in a highly volatile stock market.
  - **Flood Detection Using LSTM Neural Networks**
    * Collaborated on developing an LSTM model to predict flood occurrences in various districts of India, leveraging the model's ability to handle long-term dependencies in sequential data for accurate rainfall forecasting.
    * Implemented web scraping to automatically download data from the WRIS using Playwright.
  - **Technologies:** Python, pandas, numpy, scikit-learn, TensorFlow, Keras, Playwright

PROJECTS

- **Enhancing Motorcycle Safety with Smart Helmet Technology** *Mar 2024 - Present*
  Capstone Project (Ongoing)
  - **Integrated Safety Features:** Developing a smart helmet system with alcohol detection (alcohol sensor), helmet compliance verification (IR sensor), distance monitoring (ultrasonic sensor), accident detection (accelerometer), and emergency communication (GPS and GSM modules).
  - **User-friendly Interface:** Ensured a user-friendly interface for riders, emphasizing ease of access to vital information without distraction and designed for scalability and future enhancements.

- **MovieGossips** *Dec. 2023 - Jan. 2024*
  - **Comprehensive Movie Information:** Developed a website that recommends similar movies using cosine similarity and displays top cast information, including DOB and biography, using the TMDB API.
  - **Sentiment Analysis on Reviews:** Fetched detailed movie data (title, genre, runtime, rating, poster) via TMDB API and performed web scraping with BeautifulSoup4 to obtain user reviews from IMDB, followed by sentiment analysis using Naive Bayes to categorize reviews as good or bad.

- **Spotify Clone** *Jan. 2021*
  - Developed a frontend-based website using HTML, CSS, and JavaScript.
  - Integrated functionalities for playing music tracks, managing queue, and controlling playback options.

SKILLS

- **Programming**: C/C++, Java (basic), Python, SQL, HTML, CSS, JavaScript
- **Core Subjects**: Data Structures and Algorithms (DSA), OOPs, Operating Systems, Computer Networks, Artificial Intelligence, Machine Learning, Data Science, DBMS
- **Platforms**: Git/GitHub, VS Code, PyCharm, Google Colab, Linux, MySQL, MS-Office, Word, Powerpoint, Matlab, AutoCAD, Arduino IDE

ACHIEVEMENTS, CERTIFICATIONS AND ROLES OF RESPONSIBILITY

- **Student Placement Representative**: Appointed as a SPR (Student Placement Representative) and member of the Placement Council of my college. One of 6 SPRs representing my branch of over 800 students.
- **Coding Practice**: Solved over 250+ coding problems on various platforms.
  LeetCode Contest Rating: 1682 (Top 14.2%) LeetCode Profile
- **Kaggle Expert**: Achieved Notebooks Expert level on Kaggle Kaggle Profile
- **Infosys Springboard Certificates**: Earned 11 certificates from Infosys Springboard in Data Science, AI, ML, Computer Vision, Deep Learning, and non-technical skills such as impactful presentations, email writing, and Scrum practices. Certificates
- **Coursera Certifications**: Obtained multiple certifications in various Data Science domains from Coursera. Certificates