

Avi Srivastava

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EDUCATION

Thapar Institute of Engineering and Technology, Patiala, Punjab, India	(2022-Present)
Bachelor of Engineering Computer Engineering Current CGPA: 8.01	
Delhi Public School, Greater Faridabad, Haryana, India	(2013-2022)
JEE: 91.92 percentile CBSE (Class XII): 84.6 % CBSE (Class X): 93.2%	

TECHNICAL SKILLS

- **Programming:** Python, C/C++, SQL, PostgreSQL, MATLAB, YAML/JSON
- **Tools/Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Flask, Power BI, OpenAI API, Supabase, ChromaDB, LangChain, Qdrant, HuggingFace
- **Areas:** Machine Learning, Natural Language Processing, Data Analysis & Visualization, Time Series Forecasting, Semantic Search, Retrieval-Augmented Generation, API Development, Automation & Scripting, Database Management, Data Structures & Algorithms, Image Processing

WORK EXPERIENCE

PharmaAI — Intern	June 2025 – Present
<ul style="list-style-type: none">• Leading development of an AI-powered SQL assistant using fine-tuned LLMs and ChromaDB-based RAG to automate complex regimen analysis.• Engineered feedback and retry mechanisms to iteratively improve model accuracy and enhance clinical decision support.• Designed and deployed a modular frontend on Vercel with integrated chat, SQL output, and visualizations, backed by an EC2-hosted backend and QdrantDB for fast vector search.	
IT - Fest Head Organiser	Dec 2018 - June 2021
<ul style="list-style-type: none">• Mentored over 150 students in developing their web development skills.• Organised 4 events, assisting over 300 participants in developing various computer skills.• Conducted and judged inter-school competitions with 50 participants.	

PROJECTS

Natural Language to SQL Query Generator using LLMs	April 2025
<ul style="list-style-type: none">• Built an intelligent system that translates natural language questions into executable SQL queries.• Integrated OpenAI's LLM with a structured database to enable real-time query generation and data retrieval.• Implemented prompt tuning and query validation to ensure accurate and relevant SQL outputs.	
Food Delivery Time Prediction Using Machine Learning	Mar 2025
<ul style="list-style-type: none">• Predicted delivery time using features like distance, order type, and traffic conditions.• Built and trained a neural network using TensorFlow/Keras, achieving a MAE of 5.90 min.• Developed and deployed a Flask API to serve real-time predictions on new orders.	
Sentiment Analysis on Amazon Reviews Using VADER	Jan 2025
<ul style="list-style-type: none">• Analyzed Amazon product reviews to classify sentiment (positive, negative, neutral).• Used VADER sentiment scoring for review analysis.• Created visualizations to highlight customer feedback trends.	
Stock Price Prediction Using Machine Learning (LSTM)	Oct 2024
<ul style="list-style-type: none">• Built an LSTM-based model to predict stock prices with a MAE of 2.87.• Preprocessed and normalized historical stock data from 2012 to 2019.• Improved prediction accuracy through fine-tuning and model validation.	
Predictive Analytics for Customer Loan Conversion	June 2024
<ul style="list-style-type: none">• Analysed customer data to predict personal loan candidates among Bank's depositors.• Achieved 98% model accuracy using Random Forest and Logistic Regression after iterative tuning.• Applied feature engineering to improve classifier performance.	

ACHIEVEMENTS

- Top 300 nationwide - Atal Innovation Mission
- 75% merit scholarship in Class XI & XII