

# Shiv Arora

[LinkedIn](#) | [GitHub](#) |

Location: Noida, Uttar Pradesh  
[shivarora08032002@gmail.com](mailto:shivarora08032002@gmail.com) | Mobile: +91 8219484765

## AI ENGINEER & DATA SCIENTIST

Innovative **AI Engineer** and **Data Scientist** with deep expertise in **Machine Learning**, **Deep Learning**, and **Generative AI**. Skilled in developing intelligent systems and autonomous agents using **LLMs**, **RAG architectures**, and frameworks like **LangGraph**. Proficient in deploying end-to-end data solutions with **Python**, **TensorFlow**, and **Scikit-Learn**. Adept at transforming raw data into actionable insights through **SQL**, **Power BI**, and **Excel**. Passionate about applying AI to automate reasoning, enhance decision-making, and deliver real-world business impact.

## TECHNICAL SKILLS

**Programming Languages** :Python, SQL, Java

**Machine Learning & AI** :Scikit-learn, TensorFlow, Generative AI, Agentic AI Frameworks(LangChain, LangGraph)

**Data Science Libraries** :Pandas, NumPy, Matplotlib, Seaborn, OpenCV, NLTK, Transformers

**Data Visualization** :Power BI, Excel

**Databases** :MySQL, PostgreSQL

**Tools & Environments** :Jupyter Notebook, Google Colab, Anaconda, Visual Studio Code, Git, GitHub

## EXPERIENCE

### Jr. Data Scientist

KDataScience

April 2023 – October 2023

WFH – Gurugram, Haryana, India

- Developed **Machine Learning models** for revenue prediction and client recommendations, improving business decision-making and growth forecasting.
- Created insightful **financial reports** and automated **Excel-based data manipulation** to enhance operational efficiency.
- Collaborated with clients to understand requirements and provide **data-driven solutions** through effective communication and analysis.

### Business Analyst Intern

S.A Square Group

November 2022 – April 2023

Faridabad, Haryana, India

- Built a **machine learning model** to identify high-potential locations for business expansion using predictive analytics.
- Automated **order processing workflows** and developed **stored procedures** for efficient data handling and reporting.
- Created dynamic **revenue dashboards in Power BI** to support strategic decision-making by key stakeholders.

## PROJECTS

### Stock Price Prediction

February 2025 – April 2025

- Integrated financial data from **Yahoo Finance (yfinance)** and real-time updates from a **News API** to generate stock market predictions.
- Implemented a **Bayesian Time Series model** for stock price forecasting and a **BERT-based sentiment analysis model** for financial news interpretation.
- Combined the outputs of both models to determine the stock's directional movement and deployed results via a **web-based dashboard** for intuitive visualization.

### SQL Agent

June 2025 – August 2025

- Developed a **SQL Agent** leveraging **LangChain** to interpret human-readable queries and automatically convert them into executable SQL commands.
- Integrated the agent with a **SQLite database** to retrieve and process relevant data dynamically based on user inputs.
- Enabled non-technical users to query databases effortlessly without writing SQL manually, delivering **real-time, accurate outputs** to enhance accessibility and efficiency in data retrieval.

EDUCATION

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<b>Kendriya Vidyalaya</b> 10 <sup>th</sup> (74%)	Banikhet, Himachal Pradesh 2017 – 2018
<b>Kendriya Vidyalaya</b> 12 <sup>th</sup> (79%)	Banikhet, Himachal Pradesh 2019 – 2020
<b>Bennett University</b> Bachelor of Computer Applications (9.57 CGPA)	Greater Noida, Uttar Pradesh 2020 – 2023
<b>Shri G.S. Institute of Science and Technology</b> Master of Computer Applications (8.88 CGPA till 2 <sup>nd</sup> Semester, Expected 2026)	Indore, Madhya Pradesh 2023 – 2026

ADDITIONAL PROJECTS

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<b>Simple Java VPN</b>	February 2025 – May 2025
<ul style="list-style-type: none"><li>Designed and implemented a <b>Java-based VPN structure</b> enabling secure data transmission via encrypted tunnels using SQLite for logging.</li><li>Configured client-server architecture with GUI components, log reading modules, and real-time monitoring of encrypted communications.</li><li>Explored network security concepts (tunneling, encryption, authentication) and delivered a user-friendly interface for monitoring VPN traffic.</li></ul>	
<b>Stock Exchange Simulator</b>	April 2025 – June 2025
<ul style="list-style-type: none"><li>Built a <b>Python-based stock exchange simulator</b> featuring a limit order book, websocket servers, and interactive trading clients.</li><li>Integrated real-time order processing, market data streaming, and visualization of bid/ask order books and price movement.</li><li>Implemented asynchronous event-driven architecture with Python’s asyncio + websockets and mock trader clients to emulate market dynamics.</li></ul>	

EXTRA-CURRICULAR ACTIVITIES

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- Organized “**Tech Skull Gaming Zone**” at college fest, managing 200+ participants and coordinating event logistics.
- Solved over **120+ LeetCode problems**, strengthening problem-solving and algorithmic design skills.
- Experiment with AI APIs like **OpenAI**, **Hugging Face**, and **Gemini** for personal side projects.
- Maintain a personal **GitHub portfolio** showcasing hands-on experiments in AI and data analytics.
- Enjoy reading novels during leisure time to improve communication skills and vocabulary.
- Pursue casual photography and photo editing as a creative hobby.