

# Satyam Verma

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## SUMMARY

I'm an enthusiastic Python developer with a strong foundation in AI, natural language processing, and machine learning. Eager to learn and apply cutting-edge techniques, I bring a versatile skill set in building interactive AI systems and optimizing database-driven applications, making me a valuable asset to any team focused on innovation and growth.

## SKILLS

**Languages:** C/C++, Cython, Python, JavaScript

**Web Frameworks:** React, Express, Flask, FastAPI, Streamlit

**Databases:** SQLite, MySQL, MongoDB

**Tools:** Bash, Linux, VS Code, PyCharm, Github, MySQL Workbench, SQLAlchemy

**General:** Prompt Engineering, Natural Language Processing, API Integration, Problem-Solving, DSA, Object Oriented Programming

## PROJECTS

### SQL Chatbot with LangChain and LLM Integration

Personal

- Developed an interactive chatbot using **LangChain** and **Streamlit** to query SQL databases through natural language.
- Integrated **Llama3-8b-8192** via **ChatGroq** API for intelligent and context-aware SQL query generation.
- Implemented support for both **SQLite** and **MySQL** databases, enabling flexible database connections.

### Flora Sense: Plant Solution

Personal · [github.com/satyamverma21/FloraSense.git](https://github.com/satyamverma21/FloraSense.git)

- Utilized **Plant.id API** for precise plant species identification, fostering botanical interest.
- Implemented plant disease detection, enabling early intervention and improving plant health.
- Prioritized a responsive interface for accessible plant identification and disease detection.
- Python, Flask, Jinja HTML, Tailwind CSS, JavaScript, Plant.id API, Render hosting.**

### Algo-Trading

Personal · [github.com/satyamverma21/AlgoTrading.git](https://github.com/satyamverma21/AlgoTrading.git)

- Leveraged **Alpha Vantage API** to build a Python model for stock analysis and signal generation.
- Utilized moving averages to identify **buy/sell signals**, enhancing trading strategy effectiveness.
- Leveraged **Python** for seamless manipulation and visualization of extensive stock data.
- Showcased practical application in a **Jupyter Notebook**, emphasizing user-friendly accessibility for all traders.

## EXPERIENCE

### Python LLM Trainer

Turing

August 2024 - Present, California, USA

Turing is an AI-powered talent network that connects top global talent with innovative companies to accelerate technological advancements.

- LLM Development & Optimization:** Worked with a team of six to develop and refine large language models (LLMs), enhancing natural language understanding and generation through research and experimentation.
- Reinforcement Learning & Human Feedback:** Implemented RLHF to align AI outputs with human preferences, optimizing reward mechanisms to improve model robustness, efficiency, and overall performance.
- Prompt Engineering & Model Evaluation:** Designed prompts to identify model weaknesses, generate ideal human-like responses, and fine-tune outputs, ensuring AI aligns with real-world applications and user expectations.

### Python Developer

AlgoBulls

August 2023 - August 2024, Pune, India

AlgoBulls is an algorithmic trading platform that provides AI-driven strategies for retail investors.

- Using Cython, boosting trading code speed 150% for rapid, revenue-generating trades.
- Proficient in NumPy, Pandas, and data visualization.
- Automated processes with Bash scripts for efficiency.
- Strong problem-solving and creative data approach.

## EDUCATION

### Bachelor of Computer Applications

Guru Gobind Singh Indraprastha University (GGSIU) · New Delhi · 2024 · 9.2