



Sambhav Surana

Artificial intelligence with data science

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Summary	<p>I'm a third-year student with a strong interest in artificial intelligence and data science. I’ve built tools like a <i>deep research assistant</i> powered by large language models (LLMs), and I’ve worked on hands-on projects across different areas of machine learning—like supervised, unsupervised, and reinforcement learning. I really enjoy combining creativity with data to build smart systems that solve real-world problems.</p> <p>I'm focused on a career in Artificial Intelligence with Data Science. It’s a field where I can take the theory behind AI and apply it to real applications that make a difference. Whether it's in finance, healthcare, or transportation, I want to help build intelligent systems that improve how decisions are made and how things work.</p>
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Experience	Future Intern Machine Learning	May 2025 - June 2025 Remote
Education	Sai Shree International Academy Class 10 (67%)	2021
	Sai Shree International Academy Class 12 (79%)	2023
	Shri Vaishnav Vidyapeeth Vishwavidyalaya CSE (AI-IBM) III Year Pursuing	2023 - Present B.Tech.

Projects	Collaborative Whiteboard Tool — Real-Time AI-Assisted Whiteboarding A real-time collaborative whiteboard with AI assistance, built using Next.js and GPT-4o. It allows multiple users to draw, write, and interact on a shared canvas while leveraging AI for content enhancement and suggestions. 🔗 https://github.com/Sambhav242005/Collaborative-Whiteboard-Tool Next.js 14 OpenAI API Bun Tailwind CSS shadcn/ui <ul style="list-style-type: none">Integrates OpenAI GPT-4o endpoints to suggest shapes, labels and automatic summaries of the board contents (planned feature branch). GPT-4o, OpenAI API, Next.js, React, Real-Time Collaboration, WebSockets, AI-assisted UI, Generative AI, JavaScript, Live Drawing	April 4 2025 - Present
	Deep Search — AI-Powered Contextual Research Tool Python + Gradio tool that merges DuckDuckGo results with local Ollama LLMs. An auto-planner breaks a query into sub-questions, runs them in parallel, then returns a fully cited answer (Markdown, CSV, or any JSON schema). Model-agnostic: instantly swaps between Llama 3, Mistral, Phi-3, etc., detected at runtime. 🔗 https://github.com/Sambhav242005/Deep-Search Python Gradio Ollama LLMs DuckDuckGo API Asyncio <ul style="list-style-type: none">Built a research assistant that chains web search with local LLM inference to output fully cited answers in Markdown.Added an auto-planner that decomposes the user’s query into sub-questions and aggregates the results for richer responses.	
	Stock Prediction — Time Series AI Model Linear Regression-based model to forecast stock prices with real-world financial datasets 🔗 https://github.com/Sambhav242005/FUTURE_ML_02 Python Scikit-learn Pandas Matplotlib NumPy <ul style="list-style-type: none">Developed a stock prediction tool using linear regression to forecast closing prices based on historical patterns.Visualized model performance with actual vs predicted plots, highlighting trend-following behavior. Linear Regression, Stock Forecasting, Time Series, Data Analysis, Scikit-learn, Predictive Modeling	June 2025
	Customer Support Chatbot — AI Assistant for FAQs NLP-based chatbot that answers support queries using past tickets and LLM reasoning 🔗 https://github.com/Sambhav242005/FUTURE_ML_03 Python Gradio Ollama Scikit-learn NLTK Pandas <ul style="list-style-type: none">Developed an AI-powered customer support chatbot to handle technical, billing, and general inquiries.Used NLTK for preprocessing (lemmatization, stopword removal) and pandas for handling Kaggle-based support ticket datasets.Implemented TF-IDF vectorization and cosine similarity with scikit-learn to match user questions with relevant past tickets.Integrated Ollama to generate friendly, context-aware responses based on matched tickets.Built a Gradio-based conversational interface for real-time user interaction. NLP, Chatbot, Customer Support, Cosine Similarity, Ollama, Gradio, Scikit-learn, NLTK, Python	June 2025

Skills	Machine learning ● ● ● ● ● Data Visualization ● ● ● ● ● Data cleaning, preprocessing, and feature engineering ● ● ● ● ● Field of Interest:AI Agents, MCP(Model Contorl Protocol) , Embedded Systems, AI/ML ● ● ● ● ● Programing Language :- Python ,JavaScript,SQL,Bash ,React.js,Next.Js ● ● ● ● ● Tools and IDEs:Jupyter Notebook, PyCharm,VSCode , Git/Github ● ● ● ● ● Operating Systems:Windows, Linux ● ● ● ● ● Frameworks/Libraries:NumPy, Pandas, Tensorflow, Matplotlib, Scikit-Learn ● ● ● ● ● Git & Github ● ● ● ● ● SQL and NoSQL ● ● ● ● ●
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