

Shashwat Singh

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TECHNICAL SKILLS

Prompt Engineering, Retrieval-Augmented Generation (RAG), Fine-tuning, Model Context Protocol (MCP), Agent Creation, NLP, CNN, RNN, LSTM, GRU, Bidirectional RNN, Scikit-learn, PyTorch, TensorFlow, LangChain, CrewAI, Hugging Face Transformers, LangGraph, OpenAI, Groq, LLaMA 3, Stable Diffusion, AWS Bedrock, AWS SageMaker, FAISS, Pinecone, ChromaDB, AstraDB, Python (Pandas, NumPy, SciPy, Matplotlib), SQL (MySQL, PostgreSQL), Git, MLflow, DVC, DagsHub, Docker, GitHub

PROFESSIONAL EXPERIENCE

Nest India <i>Data Analyst</i>	Jan 2025 – Mar 2025
<ul style="list-style-type: none">– Conducted sentiment analysis on fintech reviews, improving insight accuracy by 35% and reducing analysis turnaround by 40%– Developed interactive dashboards and SQL queries for actionable business intelligence	

PROJECTS

AgriGPT – Plant Disease Classification and Agriculture Expert	<i>Feb 2025 – Present</i>
<ul style="list-style-type: none">– Built an intelligent crop diagnosis platform combining image classification, weather-aware recommendations, and generative AI– Trained a CNN model with 92% accuracy for plant disease recognition using TensorFlow/Keras– Integrated Groq/Gemma2-9b-it and OpenAI GPT-4 for multilingual, natural language-based recovery guidance– Implemented AstraDB (Cassandra) vector store for context-rich treatment retrieval with CrewAI agents– Enabled PDF report generation, SMTP-based email alerts, and real-time weather-aware recommendations via WeatherAPI– Deployed as a full-stack application using Streamlit with optimized performance and user experience	
StockSage – End-to-End LSTM Stock Prediction Platform	<i>June 2025</i>
<ul style="list-style-type: none">– Developed a robust ML pipeline and Streamlit dashboard for real-time stock price forecasting using LSTM neural networks– Integrated Twelve Data API for fetching historical stock data and visualizing $\pm 3\%$ confidence intervals– Tracked experiments using MLflow and performed hyperparameter tuning with Hyperopt for model optimization– Used DVC for data versioning and DagsHub for collaborative remote storage and data lineage tracking– Stored AI predictions and reasoning explanations in AstraDB for long-term tracking and vector-based retrieval	

EXTRACURRICULAR & ACHIEVEMENTS

Sports and Strategy	
<ul style="list-style-type: none">– Consistent performer in university-level chess events with strong opening play and strategic endgames– Active participant in recreational badminton tournaments, promoting fitness and team collaboration	
Data Science and AI Community	
<ul style="list-style-type: none">– Active participant in Kaggle competitions, applying machine learning models to real-world datasets– Contribute to open-source AI projects focused on prediction, classification, and NLP applications	

EDUCATION

VIT Bhopal University <i>Bachelor of Technology in Computer Science and Engineering</i>	Nov 2022 – Present CGPA: 7.96
YMCA Centenary School & College <i>Higher Secondary Certificate (12th)</i>	2021 78.6%
YMCA Centenary School & College <i>Secondary School Certificate (10th)</i>	2019 80.0%