

# Shashwat Singh

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## TECHNICAL SKILLS

Prompt Engineering, RAG, Agent Creation, Fine-tuning, LangChain, Crew AI, Hugging Face, TensorFlow, PyTorch, LSTM, CNN, Scikit-learn, Astra DB, Chroma DB, Pinecone, FAISS, Python, SQL, MySQL, PostgreSQL, Power BI, EDA, Feature Engineering, Excel, MLflow, DVC, DagsHub, GitHub Action, Apache Airflow, Docker, Git

## PROFESSIONAL EXPERIENCE

### Nest India

Jan 2025 – Mar 2025

#### Data Analyst

- Designed and optimized a data pipeline using SQL and Python (Pandas, NumPy) to extract, clean, and transform customer data, reducing processing time by 30%
- Created an NLP-based review analysis system that processed 5,000+ fintech app reviews, uncovering recurring issues with app reliability and transaction speed, which helped product teams prioritize fixes

## PROJECTS

### StockSage – End-to-End LSTM Stock Prediction Platform ([Link](#))

June 2025

- Created an end-to-end ML pipeline with a Streamlit dashboard that uses LSTM RNN to forecast stock prices in real time from the past 10 days of market data
- Integrated Twelve Data API for fetching historical stock data and visualizing  $\pm 3\%$  confidence intervals
- Tracked experiments with MLflow, used DVC for data versioning, DagsHub for remote storage and optimized models through hyperparameter tuning, performing 720 fits using Hyperopt
- Stored AI predictions and reasoning explanations in AstraDB for long-term tracking and vector-based retrieval, reducing model inferencing time by 3 seconds

### AI Email Manager using MCP – Gmail Automation Server ([Link](#))

May 2025

- Developed FastMCP-based Gmail automation using natural language commands saving on an average 2 hours per day.
- Built and deployed SMTP/IMAP endpoints, implemented OAuth2 and integrated with Claude, enabling 100+ automated email interactions per day and reducing manual email handling time by 70%
- Achieved an average end-to-end latency of less than 900ms from command input to email action execution.

### AgriGPT – Plant Disease Classification and Agriculture Expert ([Link](#))

April - 2025

- Built an intelligent crop diagnosis platform using 25,000 labeled images across 5 crop disease classes, integrating image classification with weather-aware recommendations and generative AI for tailored farmer guidance.
- 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 and real-time weather-aware recommendations via WeatherAPI
- Implemented AstraDB (Cassandra) vector store for context-rich treatment retrieval with Crew AI agents and reduce the inference time by 5 seconds.

## CERTIFICATES

### Oracle Cloud Infrastructure 2025 Data Science Professional (1Z0-1110-25)

Issued: 2025

## EDUCATION

### VIT Bhopal University

Nov 2022 – Present

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.14