

SHASHWAT SINGH

AI Engineer

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[Linkedin](#) • [Portfolio](#)

PROFESSIONAL EXPERIENCE

Data Analyst

Nest India • Jan 2025 – Mar 2025

- Conducted sentiment analysis on fintech application reviews, improving insight accuracy by 35%.
 - Identified transactional patterns, enhancing risk assessment protocols by 20%.
 - Automated data preprocessing workflows using Python, reducing analysis turnaround by 40%.
 - Developed interactive dashboards and SQL queries for actionable business intelligence.
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PROJECTS

AgriGPT: AI-Powered Disease Diagnosis & Treatment Platform

Solo Developer

- Engineered a CNN-based model with 92% accuracy for plant disease detection.
- Integrated LangChain and OpenAI GPT for personalized treatment recommendations.
- Architected vector-based retrieval using AstraDB with multilingual support.
- Implemented automated PDF reports summarizing diagnosis and treatments.

AICSA: AI-Powered Career & Study Assistant

Solo Developer

- Developed a multi-agent system leveraging LangChain and CrewAI for educational support.
- Created agents for code explanation, note generation, and quiz formulation.
- Designed a responsive Streamlit interface and optimized document processing.

AI Email Manager using MCP

Solo Developer

- Built an email automation tool using FastMCP integrated with Claude for natural language commands.
 - Enabled users to send and read emails by instructing Claude, using Model Context Protocol.
 - Implemented validated SMTP-based email sending and IMAP-based inbox scanning.
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EDUCATION

Bachelor of Technology in Computer Science - VIT Bhopal University

TECHNICAL SKILLS

AI & Machine Learning: CNN, RNN, LSTM, GRU, Bidirectional RNN, Prompt Engineering, RAG, Fine-tuning

Frameworks: LangChain, CrewAI, Hugging Face, Ollama

LLM & APIs: OpenAI, Groq, Llama3, Stable Diffusion, AWS AI Services, Azure AI

Vector Databases: FAISS, Pinecone, ChromaDB, AstraDB

Programming & Tools: Python (Pandas, NumPy, SciPy), SQL (MySQL, PostgreSQL), Matplotlib

Protocols: Model Context Protocol (MCP)