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.

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.

EDUCATION

Bachelor of Technology in Computer Science - VIT Bhopal University

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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)