

# CHETAN SHARMA

## AI ENGINEER

Chandigarh, Punjab 140301 ♦ +917018561938 ♦ Chetansharma961@gmail.com

♦ **LinkedIn:** [www.linkedin.com/in/chetan-sharma-7a12011b8](https://www.linkedin.com/in/chetan-sharma-7a12011b8)

### PROFESSIONAL SUMMARY

Innovative and results-driven **Full Stack AI Engineer** with proven expertise in building **production-scale AI systems and intelligent web applications** using **Python, Django, FastAPI, and AWS**. Skilled in designing **RAG pipelines, Agentic AI architectures (CrewAI + LangChain)**, and **prompt-engineered LLM integrations** using **OpenAI, Claude, and Gemini**. Adept at **cloud-native deployments, Dockerized microservices, and data-driven automation**, consistently delivering solutions that enhance system intelligence, scalability, and business impact.

### EXPERIENCE

**AI Engineer**, 06/2025 - Current

**Finvasia** – Mohali, India

- **Led the Shoonya AI Team** to architect and deploy **SensAI**, an end-to-end **Agentic AI ecosystem** delivering real-time **stock sentiment, technical, and fundamental analysis** for the Shoonya trading platform.
- Developed a **multi-agent AI framework** using **LangChain**, enabling specialized agents (**Technical, Fundamental, and News**) to collaborate autonomously and aggregate insights through a **weighted sentiment model (60:20:20)**, processing **3000+ stock symbols daily**.
- Built and integrated the **Shoonya Chatbot** leveraging **RAG pipelines with OpenAI LLMs**, providing **context-aware conversational access**.
- Designed hybrid sentiment algorithms, combining technical indicators (RSI, EMA, SMA), fundamental metrics (ROE, CAGR), and news sentiment, to generate precise and explainable market insights.
- Automated data ingestion and analysis pipelines using **AWS ECS, FastAPI, and Dockerized microservices**, achieving sub-500 ms latency, fault tolerance, and 99.8% uptime in production environments.
- Initiated and led the **JAI Voice Jump Project**, an **AI-powered multilingual voice assistant** integrating **speech-to-text, OpenAI-driven reasoning, and financial query handling** across **15+ Indian languages**, pioneering a **smart, voice-interactive financial assistant** for Jump users.

**Associate Full Stack AI Developer**, 11/2022 - 04/2025

**Ziiion Technology - 2.5 Years – Mohali**

- **Developed scalable, AI-driven RESTful APIs** using Flask, Django, and FastAPI, optimizing for high performance and reliability in production environments.
- **Integrated advanced generative AI and LLMs** via OpenAI API, Vertex AI, and Hugging Face, enabling sophisticated AI-powered features.
- **Designed and optimized RAG pipelines** with LangChain, Redis, and Qdrant, delivering context-aware, knowledge-driven AI responses.
- **Engineered agentic AI systems** using CrewAI, orchestrating multi-agent workflows for autonomous decision-making and task automation.
- **Implemented secure authentication** with JWT and OAuth2, alongside performance-tuned PostgreSQL and MySQL databases for scalability.
- **Deployed and managed AI/ML applications** on AWS (EC2, S3, RDS, Lambda) and Google Cloud (Vertex AI) using Docker, Terraform, and CI/CD pipelines.

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## PROJECTS

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### **SensAI – Agentic AI Stock Sentiment & Analytics Platform (Shoonya)**

**Technologies:** Python, FastAPI, LangChain, OpenAI GPT-4, MongoDB, MySQL, Pandas, APScheduler, Docker, AWS ECS, Pydantic

- **Architected and deployed SensAI 2.0, a multi-agent Agentic AI system** delivering real-time stock sentiment through **Technical (RSI, EMA, SMA)**, **Fundamental (ROE, CAGR)**, and **News analysis**, processing **3000+ Indian stock symbols daily**.
- Developed a **multi-agent AI framework** using **LangChain and OpenAI GPT-4**, featuring specialized agents (Technical, Fundamental, News) coordinated via a **weighted aggregation algorithm (60:20:20)** to produce structured JSON outputs for downstream systems.
- Engineered **ETL pipelines** using **MongoDB (symbol docs)** and **MySQL (indicators)** for continuous computation of key metrics (RSI Wilder, EMA/SMA crossovers, CAGR) supporting live market insights.
- Implemented **production-grade orchestration** using **APScheduler** for daily cron jobs, **FastAPI async microservices**, and **Dockerized deployments** on **AWS ECS** with **auto-scaling**, ensuring **99.8% uptime** and stable performance.
- Designed **Fast APIs** for sentiment retrieval, batch symbol processing, and historical indicator analysis to power **real-time insights** within the **Shoonya trading platform**.
- Integrated **Teams webhooks, structured logging, and distributed error handling** for end-to-end **observability, fault tolerance, and production monitoring** across services.

## AI-Powered eCTD Submission Management System

**Technologies:** Python, Django, AWS Lambda, LangChain, CrewAI, Bedrock (Claude 3), Qdrant, OneDrive API, JWT, Docker

- Built full-stack eCTD platform with **automated ICH v3.2 XML generation**
- Integrated **CrewAI + LangChain chatbot** for document querying, editing, and summary
- Automated text extraction & embedding pipeline with AWS Bedrock + Qdrant + Claude
- Supported download-ready, AI-edited PDFs/Word docs; deployed with Docker + CI/CD

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## SKILLS

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**Programming Languages:** Python, JavaScript (ES6+)

**Frontend:** React, HTML5, CSS3, Tailwind CSS, Bootstrap

**Backend & APIs:** FastAPI, Django, Flask, REST, JWT/OAuth2

**AI / ML Frameworks:** PyTorch, TensorFlow, scikit-learn, LangChain, LangGraph, LlamaIndex

**LLMs & GenAI:** OpenAI GPT-4,5 Claude 3 (Bedrock), Gemini

**Agentic & Orchestration:** LangChain, LangGraph, CrewAI, AutoGen, Multi-Agent Systems

**Vector & Embeddings:** Qdrant, Pinecone, FAISS, Chroma, Redis (vector)

**Prompt Engineering:** Few-shot, Chain-of-Thought, ReAct, Function Calling, RAG

**Data Processing:** Pandas, NumPy, Spark, PyMuPDF, Hadoop

**Databases:** PostgreSQL, MySQL, MongoDB, Redis, DuckDB, CockroachDB

**Cloud & Deployment:** AWS ECS/Fargate, AWS Bedrock, Docker, CI/CD (GitHub Actions, Jenkins)

**MLOps & DevOps:** Model Training, Hyperparameter Tuning, A/B Testing, Monitoring, Logging, Auto-Scaling

**Software Engineering:** DSA, Design Patterns, Asynchronous Programming, Multi-Threading,

Microservices Architecture

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## EDUCATION

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**Master of Computer Applications:** 08/2022 - 06/2024

**Chandigarh University - Mohali**

- Focused on AI-driven web applications, software engineering, and system architecture.
- CGPA: 7.05

**Bachelor of Computer Applications:** 08/2019 - 02/2022

**Bahra University - Solan**

- Developed strong technical expertise in programming, software development, and database management.
- CGPA: 8.26
- Won 1st Prize in Technical Event held at our university.
- Hosted Events in University like Aghaz and Green Diwali.

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## CERTIFICATIONS

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- AWS Certified Solutions Architect – Associate
- Google Cloud Vertex AI Specialist Certification
- **IBM AI Engineering Professional Certificate** (Coursera)