Karan Chandel

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SUMMARY

AI Engineer with 2.5+ years of experience building Agentic and Generative AI applications in Python. Built RAG pipelines, multi-agent workflows (LangChain, LangGraph) and AI voice agents (Retell, Twilio) on Django and FastAPI backends.

EXPERIENCE

Snakescript Solutions LLP Apr 2024 – Jul 2026
Python Developer (Agentic & Generative AI) Mohali, India

- Developed backend systems with Django and FastAPI and designed agentic AI workflows (LangChain LCEL, parallel runnables).
- Built and optimized GenAI applications using LLMs and RAG to ground responses in client documents.
- Built **EngageWell**, a multi-channel AI healthcare platform (Retell AI, GPT-4o-mini, Twilio, Celery) with voice agents, personalized SMS and intent-based inbound SMS routing.

Excellence Technology Jul 2023 – Dec 2023
Python Developer Intern Mohali, India

- Assisted the team lead in developing a project using Python and Django.
- Contributed to building and testing REST APIs.

PROJECTS

Autonomous AI Strategy Engine | *Multi-Agent Business Strategy Generator* Documentation Live

- **Tech Stack**: Python, Django, DRF, LangChain (LCEL), Groq, Cohere, Pinecone, Celery, Redis
- Built a multi-agent pipeline: specialist LLM agents run in parallel and an aggregation chain merges them into one cited report.
- Implemented hybrid RAG (Cohere, Pinecone, keyword re-ranking) with DuckDuckGo web search and a regulatory risk tool.
- Streamed live progress over SSE with Celery and Redis; added JWT auth with Google and GitHub OAuth.

Deskline | *AI Voice Agents for Hotels and Restaurants* Documentation Live

- **Tech Stack**: Python, Django, DRF, Retell AI, Groq, Celery, Redis, PostgreSQL, Docker
- Built an AI voice-agent platform that answers calls, checks availability and books rooms and tables through tool endpoints.
- Processed Retell webhooks into call logs, transcripts and sentiment for an ops console with KPIs and a bookings inbox.
- Added staff confirmation for AI bookings, human escalation and tests; deployed with Docker Compose.

Lexora | *Legal AI Case Management Platform* Documentation Live

- **Tech Stack**: Python, Django, FastAPI, LangGraph, Groq, Cohere, Pinecone, Celery, Redis, Docker
- Built a case management platform with a FastAPI AI service; Celery workers chunk, embed and index PDFs in Pinecone.
- Developed a case-scoped RAG assistant (LangGraph, Groq) with source-linked answers and semantic search.

EngageWell | *Multi-Channel AI Healthcare Engagement Platform*

- **Tech Stack**: Python, Django, Retell AI, OpenAI, Twilio, Celery, Redis
- Built a campaign engine that reaches multiple users through voice calls and SMS, with automatic multi-attempt follow-ups across both channels.
- Used OpenAI to generate dynamic prompts and personalized messages for each user, with voice agents running on dynamic prompts and knowledge bases.
- Built intent classification for inbound SMS, routing replies and handling opt-outs.

SKILLS

Generative AI : LangChain (LCEL), LangGraph, RAG, AI Agents, Pinecone, Groq, Cohere

Backend : Python, Django, DRF, FastAPI, REST APIs, Celery, WebSockets, SSE, JWT

Voice & Telephony : Retell AI, Twilio

Databases & DevOps : PostgreSQL, Redis, Docker, Git