

ADITYA MOGHA

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Summary

Computer Science undergraduate specializing in **ML engineering, NLP, and generative AI** — with hands-on experience building multi-agent systems, RAG pipelines, and production-grade NLP applications using LangChain, CrewAI, and Hugging Face. Seeking internship or research roles in AI/ML engineering where I can contribute to high-impact, research-driven products.

Education

B.Tech in Computer Science Engineering

Chaudhary Devi Lal State Institute of Engineering & Technology

Aug 2023 – Sep 2027

Sirsa, Haryana

Technical Skills

Languages	Python, C++, Java, SQL, PowerShell, Bash
ML & DL	Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, Hugging Face Transformers
NLP & GenAI	spaCy, NLTK, LangChain, LlamaIndex, CrewAI, Google Gemini API, OpenAI API, RAG, Prompt Engineering
Data Science	Pandas, NumPy, Matplotlib, Seaborn, EDA, Feature Engineering, Statistical Modelling
Databases	PostgreSQL, MongoDB, MySQL, SQLite, SQLAlchemy
Cloud & DevOps	AWS (SageMaker, EC2, S3), GCP (Vertex AI), Docker, Git, FastAPI, Flask, Streamlit

Professional Experience

Project Intern — Cybersecurity & Ethical Hacking

Centre for Development and Advanced Computing (CDAC) – Cyber Gyan Virtual Internship

Jan 2025 – Mar 2025

Noida, India (Remote)

- Executed full-scope enumeration of domain users, groups, computers, and shares using **PowerShell Empire's PowerView**.
- Deployed post-exploitation modules (Invoke-Mimikatz, WMI lateral movement) to simulate credential harvesting and privilege escalation, uncovering **critical access-control misconfigurations** across the network environment.
- Delivered a structured pentest report categorising vulnerabilities by severity with prioritised remediation recommendations — reducing remediation planning time by **40%** through clear triage and least-privilege enforcement guidelines.

Projects

Multi-Agent Customer Support Platform

Python, FastAPI, CrewAI, BERT/DistilBERT, spaCy, SQLAlchemy

Architected a production-ready agentic platform with **4 CrewAI-orchestrated specialist agents** (Technical, Billing, Product, Escalation) achieving **92.4% BERT classification accuracy, 94% intent routing accuracy**, and **<500ms average response latency** across concurrent sessions. Engineered NLP pipelines for sentiment analysis (89% accuracy), multilingual support across **20+ languages** via Helsinki-NLP, and voice input (speech-to-text) over a RESTful FastAPI backend.

AgroSage AI – Farmer Advisory Agent

Python, Google Gemini API, Streamlit, OpenWeatherMap API

Built an agriculture-focused agentic AI coordinating **4 rule-based domain tools** (crop recommendation, symptom-based pest detection, fertilizer planning, live weather) with Google Gemini LLM for advisory synthesis – delivering contextually grounded responses via an interactive Streamlit interface. Engineered multi-signal intent extraction handling diverse query patterns across crop, soil, and pest domains; integrated live weather data via OpenWeatherMap API for location-aware advisories.

Semantic Book Recommendation System

Python, Sentence-Transformers, FAISS, Hugging Face, Gradio

Designed a semantic retrieval engine using **dense sentence-transformer embeddings** and FAISS ANN search to match free-text queries to relevant books – outperforming TF-IDF and keyword baselines in retrieval relevance across benchmark queries. Deployed an interactive Gradio interface enabling real-time semantic book discovery without keyword dependency; indexed a multi-thousand title corpus with sub-100ms average search latency.

Active Directory NLP Query Translator

Python, PowerShell, OpenAI API, Flask, Transformers

Built an NLP-to-PowerShell translation engine converting plain-English queries into syntactically validated AD commands – **reducing average command authoring time from minutes to under 10 seconds**. Integrated real-time syntax validation covering 15+ command patterns and a Flask interface enabling non-expert sysadmins to execute complex directory operations without PowerShell expertise.

Certifications & Training

AI Engineer for Developers Associate — DataCamp

Mar 2026

Complete Data Science, ML, Deep Learning & NLP Bootcamp — Udemy

Sept 2025

BCG GenAI Job Simulation — The Forage

Jun 2025

Career Essentials in Generative AI — Microsoft & LinkedIn Learning

Feb 2025

Leadership & Activities

Core Coordinator, CodeCrafters — College Coding Club

CDLSIET, Sirsa

- Designed and delivered structured learning tracks on Python, ML, and AI for **50+ students**, covering core concepts, project development, and interview readiness. Mentored peers on end-to-end project development and open-source contributions.