

ANUBHAV THAKUR

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Professional Summary

Generative AI Developer with hands-on experience building LLM-powered applications, retrieval-augmented generation systems, agentic AI workflows, NLP models, and Python backend services. Skilled in Python, RAG, LangChain, LangGraph, FAISS, FastAPI, Hugging Face, prompt engineering, machine learning, and deep learning. Experienced in modular AI pipelines, REST APIs, vector search, and production-oriented intelligent applications.

Technical Skills

Languages: Python, C++, C, JavaScript, SQL

Generative AI: Large Language Models (LLMs), RAG, Agentic AI, LangChain, LangGraph, Prompt Engineering, Hugging Face, FAISS, Vector Search

AI/ML: Machine Learning, Deep Learning, NLP, Transformers, RoBERTa, LSTM, BERT, scikit-learn, TensorFlow, PyTorch

Software Engineering: FastAPI, REST APIs, PostgreSQL, API Integration, Web Scraping, Data Processing, Modular Development

Core CS and Tools: Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks, Git, GitHub

Work Experience

Junior Generative AI Developer | TantranZm

2026 - Present

- Develop Python-based Generative AI and agentic AI solutions using large language models, retrieval-augmented generation, prompt engineering, and multi-agent workflows for practical business use cases.
- Build modular retrieval pipelines, vector-search components, structured tool-calling workflows, and FastAPI services that connect AI capabilities with web applications and internal systems.
- Evaluate prompts, retrieval quality, and model responses while collaborating through Git-based workflows, API testing, technical documentation, and reusable software development practices.

Python and Frontend Development Intern | SINERA

Sep 2025 - Dec 2025

- Developed automated Python web scraping pipelines to collect, clean, and structure large-scale fashion product and image datasets for downstream machine learning trend analysis.
- Performed data preprocessing, feature structuring, and dataset optimization while contributing to web-platform enhancements and maintainable development workflows.

Python and Machine Learning Intern | Banshtu Tech

Jun 2024 - Sep 2024

- Developed Python web scraping pipelines to collect, clean, and structure data for downstream analysis and machine learning workflows.
- Implemented core machine learning algorithms, collaborated through Agile development practices, and documented reusable processes to improve reproducibility and code quality.

Projects

Civility Classifier - Deep Learning Toxicity Detection

- Developed a hybrid RoBERTa-LSTM NLP model to classify toxic and hateful Reddit content using contextual transformer embeddings and sequential feature extraction.
- Collected and prepared a custom dataset using PRAW, performed preprocessing and labeling, and achieved approximately 97% validation accuracy.

AI Advocate - RAG-Based Legal Assistance System

- Engineered a Retrieval-Augmented Generation application using Python, DeepSeek, LangChain, FAISS, and indexed Indian legal documents to generate context-grounded responses.
- Implemented document ingestion, text chunking, embeddings, vector retrieval, prompt construction, and contextual answer generation for legal-information queries.

AI Research Assistant - Multi-Agent System

- Developed a multi-agent research assistant using Python, LangGraph, LangChain, Ollama, and Hugging Face Transformers to coordinate autonomous research, analysis, summarization, and report-generation workflows.
- Implemented stateful agent orchestration, prompt templates, source processing, context aggregation, and structured report generation for repeatable knowledge-synthesis tasks.

Education

Manipal University Jaipur | M.Tech in Artificial Intelligence and Machine Learning

2024 - 2026

- Relevant focus: Generative AI, machine learning, deep learning, natural language processing, recommendation systems, and a hybrid RoBERTa-BiLSTM toxicity-detection thesis.

Jaypee University of Information Technology | B.Tech in Computer Science and Engineering

2020 - 2024

- Relevant coursework: Data Structures and Algorithms, object-oriented programming, database management systems, operating systems, computer networks, web technologies, and software development.

Certifications

Complete AI and Machine Learning, Data Science Bootcamp - Udemy | Python, scikit-learn, TensorFlow, supervised and unsupervised learning, deep learning.

Academic and Extracurricular Achievements

- Ranked in the top 1% in the Himachal Pradesh Board Class XII examinations.
- Runner-up in the State-Level Football Championship.