ADITI BHATT

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PROFILE SUMMARY

Computer Science Engineering graduate specializing in Artificial Intelligence and Machine Learning, with hands-on experience designing and deploying end-to-end ML and Generative AI solutions, including LLM-based retrieval systems, recommendation engines, and NLP pipelines, alongside systems-level programming in C. Proficient in Python, LangChain, and modern AI/ML tooling, with a strong foundation in data structures, algorithms, and software engineering. Self-directed learner with a consistent record of independent project development and open-source contribution. Seeking entry-level roles as an AI/ML Engineer, Data Scientist, or Software Engineer.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, SQL

AI / Machine Learning: Machine Learning, Deep Learning Fundamentals, LLMs, Prompt Engineering, Retrieval-Augmented Generation (RAG), Recommendation Systems, LangChain, Hugging Face Transformers, scikit-learn, NLP (spaCy)

Data & Backend: Pandas, NumPy, SQL, REST APIs, POSIX Sockets, Multithreading, FAISS / Vector Databases

Tools & Platforms: Git/GitHub, VS Code, Jupyter Notebook, Streamlit, Linux, Figma

Core CS Concepts: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering, DBMS

PROJECTS

AI-Powered Document Intelligence Assistant (RAG System) *Python, LangChain, FAISS, OpenAI API, Streamlit*

- Designed and built a retrieval-augmented generation pipeline that ingests multi-format documents (PDF, DOCX), performs chunking and embedding generation, and retrieves relevant context via FAISS vector search for accurate LLM-generated responses.
- Optimized prompt templates and context-window usage, achieving ~90% answer relevance on a 50-query evaluation set across 500+ page technical documents.
- Deployed an interactive Streamlit interface enabling natural-language Q&A over large document sets, cutting manual document search time by an estimated 70%.

Automated Resume Screening & ATS Match-Scoring Tool *Python, spaCy, scikit-learn, NLP, Pandas*

- Built an NLP pipeline to parse resumes and job descriptions, extracting skills, experience, and qualifications using named entity recognition and TF-IDF/cosine similarity scoring.
- Developed an ATS compatibility scoring model that ranked 200+ sample resumes against job postings with over 85% alignment to manual recruiter review.
- Generated automated keyword-gap and formatting suggestions, directly informing data-driven resume optimization recommendations.

Hybrid Personalization & Recommendation Engine *Python, Pandas, scikit-learn, LightFM, FAISS*

- Built a hybrid recommendation system combining collaborative filtering (matrix factorization) with content-based embeddings to address the cold-start problem for new users and items.
- Trained and evaluated the model on a dataset of 1M+ user-item interactions, improving Precision@10 by 22% and NDCG by 18% over a popularity-based baseline.
- Used FAISS for approximate nearest-neighbor retrieval over item embeddings, enabling real-time recommendation serving with sub-50ms latency at scale.

Multi-threaded HTTP Server *C, POSIX Sockets, Multithreading, Linux*

- Designed and implemented a lightweight HTTP/1.1 server from scratch in C using POSIX sockets and a custom thread pool to handle concurrent client connections.
- Implemented request parsing, routing, static file serving, persistent (keep-alive) connections, and basic error handling per the HTTP/1.1 specification.
- Load-tested with concurrent benchmarking tools, sustaining 1,000+ simultaneous connections with sub-10ms average response time.

CERTIFICATIONS & CONTINUOUS LEARNING

- Google AI Essentials – Google (Coursera)
- Intro to Machine Learning & Intro to Deep Learning – Kaggle
- Machine Learning with Python – freeCodeCamp
- LangChain for LLM Application Development – DeepLearning.AI

EDUCATION

B.Tech – Computer Science Engineering (AI & ML), 2021 – 2025 Dr. A.P.J Abdul Kalam Institute of Technology, Tanakpur (Uttarakhand Technical University) | *CGPA: 7.5*

Class XII, 2020 – 2021 Nosegay Public School, Khatima | *94.2%*

Class X, 2018 – 2019 Nosegay Public School, Khatima | *90.4%*

Soft Skills: Strong Communication, Team Collaboration, Fast Learner, Adaptable & Responsible, Problem Solving