Jash Shah

B.Tech – Information and Communication Technology

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Experience

Substance AI   Aug 2024 – Jan 2025
Generative AI Engineer   *San Jose, USA (Remote)*

- Built production-grade AI agents for insurance underwriting using LangGraph and LangChain, implementing two multi-agent workflows that parsed unstructured inputs (e.g., ACORD forms, scanned images) via GPT-4 Vision and LlamaParse to generate structured markdown tables and visual risk summaries.
- Deployed on AWS using EC2 for compute, S3 for storage, and DynamoDB for scalable NoSQL storage, reducing processing time from 5 days to under 5 minutes and achieving a 99.93% efficiency gain.

Zerobalance   Nov 2021 – Jan 2022
Search Engine Optimization Intern   *Ahmedabad, India*

- Led Zerobalance to become Product Hunt's #1 Product of the Day on December 4th, 2021, securing 585 upvotes through targeted launch strategy and community engagement.
- Executed 10+ SEO strategies such as keyword optimization, schema markup, and performance tuning, significantly boosting on-page SEO metrics and content visibility.

Publication

Hypothesis Non-Triviality   Jul 2025 – Present
Knowledge & Discovery Lab, DAIICT and Oak Ridge National Laboratory   *Gandhinagar, India and Tennessee, USA*

- Evaluated reasoning models (GPT-4o, GPT-4o-mini, Magistral by Mistral AI) for their ability to detect non-triviality in research questions. Developed a semantic similarity pipeline for scientific documents using SPECTER2 (scientific document embedding model) with adapter-based models, optimized for modularity, caching, and resumability.

Projects

Financial Asset Recommendation | *Recommendation System, Content Filtering, Collaborative Filtering* ○

- Engineered a hybrid recommendation engine integrating Truncated SVD–based collaborative filtering, content-based scoring via cosine similarity, and demographic risk profiling on the FAR-Trans dataset (introduced at IJCAI-2024).
- Launched an interactive Streamlit application supporting real-time adjustment of CF/CB/risk weights, delivering Top 10 personalized asset recommendations across 321 investment products in 38 global markets.

Who's That Character | *Python, PyTorch, HuggingFace, CLIP, BART, FastAPI, Gradio, SQLite* ○

- Built a multi-modal character attribute extraction pipeline using CLIP (image) and BART (text), capable of processing 9 structured attributes (age, gender, ethnicity, hairstyle, hair color, eye color, body type, clothing style)
- Optimized for scalability with batch processing and SQLite caching, supporting datasets of millions of characters, and providing a Gradio interface and CLI tools.

Technical Skills

Languages & Frameworks : Python, C, C++, Flask, FastAPI, Django, HTML
Tools & Databases: Git, GitHub, AWS S3, Streamlit, MySQL, PostgreSQL, Neo4j, PineconeDB, ChromaDB, FAISS
Machine Learning & Deep Learning: NumPy, Pandas, RegEx, SpaCy, Scikit-Learn, TensorFlow, Keras, PyTorch
Generative AI & LLMs: LangChain, LangGraph, Hugging Face, Model Context Protocol (MCP), AI Agents, RAG
Coursework: Machine Learning, Deep Learning, Reinforcement Learning, Computer Vision, Database Management System

Position Of Responsibility

Convenor   Sept 2024 - Aug 2025
AI Club, DAIICT

- Initiated 2 major events viz. Prompt-a-Thon at iFest, Gujarat's largest tech festival, engaging 450+ students, and AI Summer Long Projects, mentoring 100+ students in Machine Learning, Deep Learning and Reinforcement Learning.

Undergraduate Teaching Assistant   Jul 2025 - Present
IE406 Machine Learning Course