

YASH SHAH

[Portfolio](#) | [Linkedin](#) | [Github](#) | yshah43@asu.edu | 480-952-2965

EDUCATION

Master of Science in Information Technology (GPA: 4.0/4.0)	May 2025
Arizona State University	Arizona, USA
B.Tech in Computer Engineering (GPA: 9.0/10.0)	April 2023
Charotar University of Science and Technology	Gujarat, India

EXPERIENCE

IT Business Analyst Intern	June 2025 - Present
Zydus Pharmaceuticals USA Inc.	New Jersey, USA
<ul style="list-style-type: none">Develop a multi-agent AI assistant in Microsoft Teams that routes sales queries through modular LLM and SQL validator agents to fetch Microsoft Fabric data, reducing manual report lookup time across sales operations.Enforcing security by Azure AD auth and agent-level SELECT-only filtering to keep queries safe and SLA-reliable.Streamline reporting with USPS-normalized PySpark addresses, fuzzy-matching strategies to achieve over 93% linkage across 600K+ records, align 25K+ mismatches, and validate results using OpenAI for quality assurance.Reconcile 1M+ SAP transactions using conditional logic to fix customer data for compliance and reporting.Built a Python pipeline to process 100+ drug PDFs with Camelot and pdfplumber for analysis in Microsoft Fabric.	
Data Engineer	January 2024 - May 2025
Arizona State University	Arizona, USA
<ul style="list-style-type: none">Cleaned and standardized Excel-based student records for downstream Salesforce ingestion, then built a WorkOS UI using GraphQL + REST APIs to pull registrant counts and generate reports, reducing turnaround time by 52%.Contributed 10+ new feature implementations for the Smart DART app, leveraging React, TypeScript, Node.js, and applied AWS Lambda and DynamoDB for distributed processing, achieving a 2.6% latency reduction.Built Flask-Airtable inventory system to track 500+ SKUs, resolving sync delays and reducing manual workload.	
Software Engineer Intern	June 2024 - August 2024
New York City Department of Finance	New York, USA
<ul style="list-style-type: none">Scripted modular SharePoint web parts utilizing React, SPFx, and Fluent UI with SPHttpClient integration to render list data and support metadata-based filtering, improving document retrieval turnaround by up to 35%.Deployed a React-based intake form with Formik and Yup for responsive form checks, routed data to SharePoint through Power-Automate, and enforced SharePoint permissions to maintain secure access control.Cleaned 50K+ records in Python and auto-mapped them to SharePoint via Power Automate with lossless transfer.	
AI Engineer	December 2022 - April 2023
AI Genesis Glib	Gujarat, India
<ul style="list-style-type: none">Built Rasa conversational agent with YAML-based intents, entity extraction, and FastAPI endpoints to automate flight booking, seat selection, and payment tasks, reducing manual support escalations.Migrated NLP stack to LangChain and Pinecone, improving routing to ~95% intent and ~97% response accuracy.Validated system through pytest integration tests and log analysis, refining routing logic across 100+ scenarios.	

PROJECTS

Coffee AI Agent (Github) Python, LLaMA 3.1, Pinecone, React Native, Firebase, RunPod	August 2025 - Present
<ul style="list-style-type: none">Design a modular AI chatbot using LLaMA 3.1 and agent based architecture (guard, classifier, recommender, order handler), deploying on RunPod GPUs to enable real time interactions with 3x lower response latency.Build RAG pipeline with OpenAI embeddings, Pinecone, and React Native–Firebase app for grounded LLM queries.	
Book Recommendation System (Github) Python, LLMs, LangChain, Chroma, Gradio	May 2025 - July 2025
<ul style="list-style-type: none">Implemented zero-shot classification with pretrained LLM embeddings to semantically encode 5,200+ book descriptions, achieving 78% fiction/non-fiction accuracy through cosine similarity based inference.Trained transformers on 7 emotion sentiments, achieving 66% accuracy and generating top-16 recommendations.	
YouTube Trending Video Analysis (Github) Python, AWS, SQL, ETL	January 2024 - April 2024
<ul style="list-style-type: none">Implemented an ETL pipeline on AWS (S3, Lambda, Glue, Athena) to ingest, transform, and analyze 100,000+ YouTube videos from multiple global regions, converting raw JSON into Parquet format for scalable analysis.Established an Amazon QuickSight dashboard to visualize key video metrics and highlight engagement trends.	

TECHNICAL SKILLS

Languages & Frameworks: Python, SQL, R, JavaScript, TypeScript, Express.js, Node.js, React, PowerShell

AI/ML & NLP: Transformers, Hugging Face, LangChain, Scikit-learn, OpenAI API, LLaMA

LLMs & Vector DBs: FAISS, Pinecone, Chroma, Rasa

Model Ops & Deployment: FastAPI, Flask, Streamlit, Gradio, Docker, Redis, Celery, REST APIs

Cloud & BI Tools: AWS, GCP, Microsoft Fabric, Azure, Snowflake, Airflow, Power BI, Tableau, QuickSight, Looker Studio