YASH PATEL

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SUMMARY

AI/ML Engineer building agentic AI workflows with LangChain and LangGraph, MCP-based tool integrations, and cloud ML pipelines. Experience across LLMs, RAG, Graph RAG, computer vision, and NLP, including typed-decision text classification with TypeSafe's JEV model.

SKILLS

Languages & Frameworks: Python, FastAPI, Flask, Django, JavaScript
LLM & Agentic AI: LangChain, LangGraph, Model Context Protocol (MCP), FastMCP, RAG, Graph RAG, Prompt Engineering, TypeSafe JEV
Vector Stores & Databases: FAISS, ChromaDB, Neo4j (Cypher), PostgreSQL, MySQL, MongoDB
Machine Learning & Computer Vision: PyTorch, TensorFlow, scikit-learn, pandas, NumPy, OCR, YOLOv8
Cloud & DevOps: AWS, Azure, GCP, Docker, Git, GitHub, CI/CD
Analytics: Power BI, Microsoft Excel, Tableau

WORK EXPERIENCE

Data Scientist Sept 2023 - Jan 2024
Enkiube Technologies Inc., Toronto, ON

- Built a document-understanding pipeline using computer vision and NLP models to extract and classify document elements.
- Labeled and managed 5,000+ images in Label Studio, raising model accuracy from 60% to 85%.
- Built an LLM-based question-generation system using prompt engineering and iterative refinement, integrated into the document-processing pipeline, with 20+ Python features developed.

Data Engineer Associate May 2023 - Aug 2023
Lambton College, Mississauga, ON

- Built an end-to-end AWS ETL pipeline with data-cleaning and validation steps that met stakeholder requirements.
- Designed Power BI dashboards and presented insights to stakeholders to support decision-making.

Machine Learning Engineer Sept 2020 - May 2021
Amkay Software Solutions, Ahmedabad, India

- Developed a receipt-extraction system using TensorFlow and OCR to convert receipt images into structured data.
- Led a 5-member team building a custom CRM, owning backend architecture and a four-tier access system, and improved task-distribution efficiency by 30%.

PROJECTS

Splitwise MCP Server *Python, FastMCP, LangChain, LangGraph, OpenAI, asyncio*

- Built a local MCP server exposing Splitwise tools for LLM agents, and developed a LangChain-based agent workflow that connects to it for automated expense operations, enforcing preview-then-confirm write gating with payload-matched confirmation tokens to prevent unintended writes.
- Engineered a production-grade backend ensuring reliable, duplicate-free execution with robust retry handling and asynchronous processing.

JEV-Based Customer Support Automation *TypeSafe JEV, Python, FastAPI, PostgreSQL, Pydantic*

- Used JEV, TypeSafe AI's decision/classification model, to classify customer inquiries into hierarchical category and subcategory labels by user intent, applying its calibrated probabilities for confidence thresholds.
- Built intent-based routing that assigns tickets to the right department automatically, removing manual triage (80% fewer manual assignments).
- Built a context-aware reply recommender that uses past conversations to suggest responses (85% faster first response).

Job Pilot *Python, FastAPI, React, SQLite, OAuth2, OpenAI API, Tailwind CSS*

- Built a full-stack AI job-search agent that automates job discovery, resume matching, and application tracking.
- Implemented resume matching with TF-IDF and cosine similarity to rank jobs against uploaded resumes.
- Added AI agents with search memory for job-specific guidance.

EDUCATION

Post Graduation Diploma, Big Data Analytics [2 years]
Lambton College, Mississauga, ON

Bachelor of Engineering, Information Technology [4 years]
Gujarat Technological University, Gujarat, India