

YASH RATHOD

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EDUCATION

LJ Institute of Engineering and Technology, Ahmedabad

2026

Bachelor of Engineering in Computer Science

Ahmedabad, Gujarat

PROFESSIONAL SUMMARY

Associate AI Engineer with hands-on industry experience designing and deploying production-grade AI systems. Specialized in multi-agent architectures, LLM-powered automation, Retrieval-Augmented Generation (RAG), and end-to-end AI application development. Proficient in Python, LangChain, LangGraph, FastAPI, and n8n. Proven track record of delivering autonomous agent systems, intelligent automation pipelines, and AI-driven full-stack applications across real-world client environments.

PROFESSIONAL EXPERIENCE

e2m Solutions

2025 – Present

Associate AI Engineer

Ahmedabad, Gujarat

OpenClaw – Multi-Agent Orchestration System ↗

Tech: OpenClaw, Claude Plugin API, SuperMemory, MCP, FastAPI, AWS EC2, Mac Mini, React

- Architected a Chief Agent that receives human tasks, decomposes and delegates to specialized sub-agents (Frontend, Backend, QA, DevOps) with internal agent-to-agent communication and status reporting.
- Integrated Claude Plugin API for direct LLM communication, SuperMemory for persistent cross-agent context management, and multiple MCP servers to extend agent capabilities with external tools and APIs.
- Deployed the full system on both a local Mac Mini instance for development and AWS EC2, achieving seamless environment parity and cloud-scale operation.
- Built a real-time Mission Control dashboard enabling humans to monitor agent workflows, track task status, review inter-agent activity, and intervene when required.

AI Automation Pipelines ↗

Tech: n8n, PageSpeed API, GBP API, Web Scraping, LLM, Prompt Engineering

- Built a Website SEO & Performance Audit pipeline – accepts a URL via Slack, pulls data from PageSpeed API and web scraping, and generates a structured AI-analyzed report.
- Automated client onboarding workflows: lead analysis, onboarding forms, meeting reminders, quote and payment management (Xero), and AI-generated MOM from meetings.
- Built a meeting-to-task automation on Teamwork – AI analyses client meeting transcripts, extracts action items, creates relevant tasks, assigns them to the right team members, sets due dates for critical items, and routes tasks through a human-in-the-loop approval step before publishing.

AI-Based Social Media Management App ↗

Tech: FastAPI, React, Python, Supabase, LLM, Prompt Engineering

- Built a multi-client social media platform with AI-powered post, image, and video generation with content refinement.
- Implemented publication scheduling and client-specific content personalization fetched from client websites, blogs, and documents.

AI-Based Website Audit Report Generator ↗

Tech: Python, FastAPI, React, Web Scraping, LLM

- Accepts a URL input and performs full site analysis – page-by-page scraping, issue detection, and insight extraction.
- Generates a structured audit report with visual proof and AI-driven improvement recommendations.

AI Chatbot for Database Querying [↗](#)

Tech: Python, NLP, SQL, FastAPI, Azure SQL

- Built an NLP-powered chatbot that converts natural language queries into SQL commands dynamically.
- Integrated with a structured database to deliver accurate, context-aware responses and improve data accessibility.

RiskNet – Database Upgrade and Optimization [↗](#)

Tech: Azure SQL, SQL Server, Python, Query Optimization

- Migrated heterogeneous client databases to Azure SQL with schema optimization and data integrity validation.
- Diagnosed and resolved long-running query bottlenecks, significantly improving system performance.

PERSONAL PROJECTS

AI-Based Algorithmic Trading System for Crypto Futures [↗](#)

Tech: Python, CoinDCX API, WebSocket, Pandas, NumPy, LLM, scikit-learn, FastAPI, Technical Analysis

- Built a fully automated perpetual futures trading bot on CoinDCX with real-time multi-asset data ingestion, a multi-timeframe confluence strategy (1H, 15M, 5M) using Supertrend, Bollinger Bands, ATR-based dynamic stop-loss, and dual take-profit targets for risk-managed execution.
- Trained and integrated ML models for price movement prediction and signal classification, and implemented an AI-driven refinement loop that analyses past trade outcomes, identifies recurring loss patterns, and autonomously suggests parameter adjustments to improve performance over time.
- Integrated an LLM Oracle as a secondary confirmation layer for pre-entry anomaly detection and regime shift verification, backed by a 100-point composite scoring system across technical, volatility, volume, and session-based signals to filter high-conviction setups.

SKILLS

Core Computer Science: Data Structures and Algorithms, Object-Oriented Programming (OOP)

Programming Languages: Python, Java, SQL, TypeScript

AI & Machine Learning: Multi-Agent Systems, LLM Engineering, Prompt Engineering, RAG, Machine Learning, Deep Learning, NLP, LangChain, LangGraph, LlamaIndex, PyTorch, TensorFlow, scikit-learn, Hugging Face, MCP (Model Context Protocol), MLOps

AI Evaluation & Observability: LangSmith, MLflow

AI Automation & Orchestration: n8n, FastAPI, Agent Workflows, Tool Use, Function Calling, OpenAI API, Anthropic API, Gemini API, Ollama

Libraries / Frameworks: Django, NumPy, Pandas, Matplotlib, Seaborn, OpenCV, Selenium

Databases: MS SQL Server, MySQL, PostgreSQL, MongoDB, OracleDB, Supabase, Pinecone, ChromaDB, pgvector

Cloud Platforms: Azure, AWS, GCP

Developer Tools & Version Control: Git, GitHub, Docker, CI/CD, GitHub Actions, VS Code, Cursor, Claude Code, Antigravity, Jupyter Notebook

Web Technologies: HTML, CSS, JavaScript, React.js, TypeScript

Soft Skills: Problem Solving, Quick Learning, Project Management, Collaboration, Time Management, communication

CERTIFICATIONS

- Oracle Cloud Infrastructure Generative AI Certified Professional
- Machine Learning (DeepLearning.AI)
- Building Generative AI-Powered Applications with Python
- Exploratory Data Analysis for Machine Learning
- Machine Learning in Production
- AWS Cloud Technical Essentials
- Database Structures and Management with MySQL – Coursera (Meta)