

AI/GenAI Engineer with strong experience in Python, machine learning, and intelligent system design. Skilled in building end-to-end AI solutions including document intelligence systems, predictive models, and automation pipelines. Experienced in applying NLP, OCR, and data-driven architectures to solve real-world problems in finance and operations. Currently expanding into LLMs, RAG systems, and scalable AI APIs.

SKILLS

Languages	Python, SQL, R
GenAI and NLP	Prompt Engineering, LLM APIs (learning), NLP, OCR
Backend and Tools	FastAPI (learning), REST APIs, Git
Data and BI	Power BI, Tableau, Excel
Cloud	AWS, Azure

EXPERIENCE

AI Intern and Researcher

July 2025 — Present

Zenith (BabyDino)

Remote

- Engineered data processing pipelines handling 10,000+ records using Python (Pandas), improving data quality and analytical reliability
- Developed explainable recommendation logic to improve transparency and user trust in AI-driven outputs.
- Collaborated with founders and engineering teams to translate business requirements into scalable solutions, contributing to system design and product-level decision-making

ITR automation system

- Developed an end-to-end document intelligence system to extract, process, and structure financial data from Form 16s, bank statements, and tax documents
- Implemented OCR and entity detection pipelines to convert unstructured documents into structured datasets.
- Designed rule-based financial logic to compute income, deductions, and tax liabilities with validation checks.
- Automated generation of structured, analysis-ready financial summaries, reducing manual processing effort significantly.

Sports Recommendation system

- Built a hybrid AI recommendation system combining computer vision and machine learning to suggest sports based on biometric and preference inputs
- Integrated OpenCV-based feature extraction with predictive models to generate personalized recommendations
- Designed explainable output logic to improve user decision-making and transparency of recommendations

PROJECTS

Asset Intelligence Model

- Developed a regime-aware asset intelligence system using Hidden Markov Models (HMM) to identify latent macroeconomic states and their impact on asset behavior.
- Integrated macroeconomic indicators, market trends, and cross-asset signals to model dynamic shifts between economic regimes (e.g., growth, contraction, high-volatility phases)
- Designed probabilistic state-transition frameworks to capture regime persistence and sudden market shifts, enabling adaptive investment strategy insights.
- Analyzed how different regimes influence asset performance, correlations, and risk characteristics to support data-driven portfolio decision-making. Built a structured pipeline for synthesizing multi-source financial data into actionable intelligence for strategy optimization.

Document Intelligence System (RAG-based AI Assistant)

- Building a Retrieval-Augmented Generation (RAG) system to enable context-aware question answering over enterprise documents (PDFs, financial records, reports). A document ingestion pipeline including text extraction, chunking, and embedding generation using LLM-based architectures.
- Integrating a vector database (FAISS/ChromaDB) for semantic search and efficient retrieval of relevant document context. An LLM-powered response layer to produce accurate, context-grounded answers while minimizing hallucinations, while applying prompt engineering techniques to improve response quality, contextual relevance, and consistency across diverse query types.

EDUCATION

Master in Computer Applications (AI and ML), Chandigarh University

June 2025

Bachelor in Science (Computer Science), Mumbai University

June 2021