

Harshwardhan Gullapalli

AI Engineer | Machine Learning | NLP

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PROFILE

AI-focused engineer with 1.5 years of experience building production-grade OCR + LLM pipelines, document intelligence systems, and vector search solutions. Experienced in designing and deploying AI-driven financial data processing systems in production environments.

SKILLS

AI/ML & Data Science: TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, NLP, Tesseract OCR

Programming: Python, SQL, PHP, Dart, JavaScript

Databases: PostgreSQL, MySQL, Pinecone (Vector DB)

Frameworks & Tools: n8n (AI Workflow Automation), Flutter, Docker, Git, CI/CD

PROFESSIONAL EXPERIENCE

Radiant Services, Full Stack Developer (AI-Focused Role)

09/2024 – Present | Solapur

- Led development of AI-powered document intelligence systems integrating OCR, LLMs, and automation workflows in production environments.
- Designed and deployed scalable AI pipelines handling large volumes of financial documents with optimized processing workflows.
- Engineered backend infrastructure to support AI-driven document processing pipelines and real-time data extraction workflows.
- Designed a location-based business discovery system based on proximity and relevance using data-driven filtering.
- Built and deployed a cross-platform Flutter application integrating backend AI services and real-time data processing.

APPLIED AI WORK

Financial Document AI Processing System, Client Project

- Designed end-to-end OCR + NLP pipeline to extract structured data from scanned financial documents (balance sheets, trial balances, invoices).
- Integrated Tesseract OCR with LLM-based parsing for intelligent field extraction, handling varied document layouts and scan qualities.
- Built validation and post-processing logic for financial data normalization, ensuring data integrity across extraction stages.
- Reduced manual data entry effort by ~70% and improved processing speed by 3x by automating extraction workflows deployed in production.

AI-Based Financial Mapping System, Client Project

- Developed AI-assisted system for mapping trial balance data to structured financial statement formats using a hybrid approach.
- Combined rule-based classification with LLM-driven mapping to handle ambiguous or non-standard account entries.
- Integrated into daily production workflow for chartered accountants, replacing error-prone manual mapping processes.

Vector Search Implementation, Client Feature

- Implemented Pinecone vector database for efficient storage and semantic retrieval of document embeddings.
- Enabled similarity-based search across financial document corpus, powering AI-assisted lookup and recommendation features.

PERSONAL AI PROJECTS

AI Resume Parser, (NLP + LLM)

- Built NLP + LLM-based system to extract structured data from resumes (PDF → JSON).
- Designed pipeline with PDF parsing, text cleaning, and LLM-based entity extraction.
- Developed FastAPI backend for real-time resume parsing API.
- Implemented validation logic for structured output consistency.

RAG-Based Document Chatbot

- Built Retrieval-Augmented Generation (RAG) system using Pinecone for semantic search.
- Implemented document chunking, embedding generation, and vector retrieval pipeline.
- Integrated LLM for context-aware question answering over documents.
- Developed interactive UI using Streamlit for real-time querying.

EDUCATION

MCA (Artificial Intelligence & Data Science), D. Y. Patil International University

2022 – 2024 | Pune

CGPA: 7.85

BCA, Hirachand Nemchand College of Commerce

2019 – 2022 | Solapur

CGPA: 8.3