

# Manoj Kumar Pabbineedi

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## PROFESSIONAL SUMMARY

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AI undergraduate with hands-on experience in **Large Language Models (LLMs), Prompt Engineering, and NLP**. Skilled in **integrating AI APIs, building automation workflows, and extracting structured data** using Python. Passionate about **Generative AI, multi-agent systems, voice AI features, and deploying AI-powered applications** for real-world use cases. Quick learner committed to following best coding practices and contributing to collaborative team environments.

## EDUCATION

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**Vignan's Institute of Information Technology**

*B.Tech in Artificial Intelligence – CGPA: 9.03*

**Narayana Junior College**

*Intermediate (Class XII) – MPC – 97.5%*

Visakhapatnam, AP

*Sep 2023 – Present*

Kakinada, AP

*2021 – 2023*

## TECHNICAL SKILLS

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**GenAI / LLMs:** OpenAI GPT-4o, LLaMA, Prompt Engineering, Fine-Tuning, RAG, LangChain, Crew AI, MCP Servers

**NLP & OCR:** Named Entity Recognition, Text Classification, NLP Pipelines, OCR/Document Parsing (Tesseract, PDFMiner)

**ML Frameworks:** TensorFlow, PyTorch, Scikit-learn, Transformers (HuggingFace)

**Programming & APIs:** Python, JavaScript, SQL, FastAPI, REST APIs, Selenium, Workflow Automation

**Databases & Cloud:** MongoDB, PostgreSQL, Supabase, AWS, Azure OpenAI, Docker (Familiar)

## PROJECTS

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**SmartCart AI – Cashierless AI Shopping Assistant** | *OpenAI GPT-4o-mini, FastAPI, Supabase, JS*

– Built an **LLM-integrated retail assistant** with AI swap engine, budget guard, and diet mode using **GPT-4o-mini with forced JSON** output for structured, context-aware responses.

– Implemented **real-time barcode scanning** (QuaggaJS), QR-based zero-queue checkout (Razorpay sandbox), and combo deal engine – demonstrating full end-to-end **AI application development**.

– Applied **prompt engineering** for post-purchase smart insights and smart deal analyser; integrated FastAPI + Supabase (PostgreSQL + Realtime) backend deployed on Vercel.

– Demonstrated **lightweight model deployment** and API integration skills across a 9-feature production-grade AI system.

**MediFlow – AI Healthcare Platform (In Progress)** | *FastAPI, PostgreSQL, AWS*

– Designing backend services with **LLM-based workflow automation** to streamline healthcare decision-making and operations management.

– Building **document parsing and structured data extraction** pipelines for medical records using NLP techniques.

– Architecting scalable deployment using **Docker and AWS** with REST API and microservices design patterns for production readiness.

**Automated College Attendance Bot (NLP Pipeline)** | *Python, Selenium, Telegram API*

– Developed an **end-to-end NLP pipeline** applying regex-based text extraction to convert unstructured HTML into structured datasets – directly analogous to **OCR/document parsing workflows**.

– Built a **real-time Telegram Bot** interface delivering personalized analytics, demonstrating API integration and production-level workflow automation with robust error handling.

**Lost and Found Link – Search & Retrieval System** | *React.js, Supabase*

– Designed a **keyword-based information retrieval system** with structured queries and real-time database operations, demonstrating concepts core to **NLP-based search and retrieval pipelines**.

## ACHIEVEMENTS & CERTIFICATIONS

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- Solved **300+** problems on LeetCode and CodeChef – strong analytical thinking and problem-solving foundation.
- **Ideathon Top 3 Finalist** – VISTA 2025, ideated and built a competitive AI solution under time constraints.
- Completed coursework in **Machine Learning, Deep Learning, NLP, and Cloud Computing** as part of AI curriculum.
- Actively exploring **LangChain, Crew AI, and MCP Servers** for multi-agent AI system development.