MANAN PANCHAL

Vadodara, Gujarat, India | +91 8200140860
mananjpanchal11@gmail.com | linkedin.com/in/manan-panchal-623516373 | github.com/manan-panchal

Professional Summary

Aspiring AI Engineer and SSIP Grant recipient specializing in Machine Learning, RAG systems, and full-stack AI development with a focus on healthcare and automation solutions.

Experience

Perplexity Remote
Campus Ambassador 2024 – Present

– Lead community engagement and knowledge-sharing initiatives to promote AI-driven research tools on campus.

– Collaborate with student developers to integrate advanced search and LLM capabilities into academic workflows.

Google Developer Groups (GDG) - CHARUSAT Changa, Gujarat
Active Member & AI/ML Core 2024 – Present

– Organize technical events and workshops focused on Google Cloud Skills and Artificial Intelligence implementations.

– Contribute to open-source projects and mentor peers in modern machine learning pipelines.

Education

Charotar University of Science & Technology (CHARUSAT) Changa, Gujarat
Bachelor of Technology in Artificial Intelligence and Machine Learning 2024 – 2028

Technical Skills

AI & ML: PyTorch, TensorFlow, LLM Integration, RAG Systems, Fine-tuning, Prompt Engineering, Model Optimization, Computer Vision, YOLO, OpenCV, Image Classification, OCR.
Languages & Frameworks: Python, C, Java, SQL, R, Flask, Streamlit.
Tools & Data: Pandas, NumPy, PowerBI, Google Cloud, Git, Docker, Hugging Face, Single Board Computers (Jetson Nano).

Projects

Multimodal RAG System Nov 2025 – Dec 2025

– Engineered a production-ready RAG system supporting text, images, code files, and documents using vector embeddings.

– Integrated advanced LLMs with semantic search for intelligent retrieval and scalable deployment.

Complete Blood Count (CBC) Analysis using AI Sep 2025 – Oct 2025

– Developed a machine learning model for automated disease prediction from blood count data with clinical-grade accuracy.

– Implemented end-to-end preprocessing, feature engineering, and evaluation metrics for medical diagnosis.

Scanix AI & SmartShift 2024 – 2025

– Developed an advanced brain tumor detection web application (Scanix AI) using medical imaging.

– Designed an AI-based automation system for MSMEs (SmartShift), recognized with an SSIP Grant from CHARUSAT.

Certifications

– Getting Started with AI on Jetson Nano - NVIDIA

– Data Science Specialization - Google / Coursera

– Foundation of Data Structure and Algorithm Analysis - Coursera

– Google Workspace (G Suite) Admin - Udemy

– Problem Solving (C, Java, and Algorithms) - HackerRank / NPTEL

– Ranked 1644 on Leetcode Competitive Programming