ARNARIT BHUNIA

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SKILLS

- **Programming Language:** Python, MySQL
- **Core Skills:** Deep Learning, Natural Language Processing (NLP), LLM Transformers
- **GenAI Specific Skills:** Large Language Models (LLMs), Text Generation, Vision Understandings, RAG pipeline, AI Agent, Multi- Agent AI System, Model Context Protocol(MCP), LLMOps
- **Tools & Frameworks:** LangChain, LangGraph, Langflow, Langsmith, Ollama, Streamlit, Agno, Groq

PROJECTS

Major – Project:-

- **Gen-AI based fitness trainer using Gemini model**
  - ➤ **Key Features & Functionalities**
    - Architected and developed a comprehensive AI-powered Health and Fitness Coach with a multi-modal interface (Text, Image, PDF, Video) using **Python** and **Streamlit**.
    - Engineered a **Retrieval-Augmented Generation (RAG)** pipeline using **LangChain** to provide factual, zero-hallucination answers from user-uploaded medical reports. This involved text extraction with PyPDF2, chunking, embedding with **Google's Text Embedding models**, and creating a searchable vector index with **FAISS**.
    - Integrated the **Google Gemini 2.5 Flash API** to perform advanced analysis on video and image content, creating a robust workflow for handling large media uploads, including asynchronous API polling to manage long-running video processing tasks.
    - Implemented sophisticated prompt engineering to define a consistent and knowledgeable AI persona, ensuring high-quality, relevant, and safe responses within the health and fitness domain.
    - Designed a stateful, user-friendly UI with **Streamlit**, managing chat history and application modes effectively while ensuring robust backend processes for file handling and resource cleanup.
  - ➤ **Technical Stack**
    - **Language:** Python
    - **AI / LLM Frameworks:** LangChain, Google Generative AI (Google Gemini 2.5 Flash)
    - **Machine Learning / Data:** FAISS (for vector storage), Google Text Embedding Models
    - **Web Framework:** Streamlit
    - **File Processing:** PyPDF2
    - **Core Libraries:** os, shutil, dotenv

Mini – Projects:-

- Building AI applications for Q&A chat-bot.
- Building AI applications for Q&A chat-bot based on uploaded images.
- Applications Tracking System using LLM model.
- Building AI application using LLM model for chatting with multiple PDF.
- Building Financial AI Agent using LangChain

CERTIFICATIONS

- Completed skill development vocational training on Signal transmission and Radio Broadcasting for One Month in the year 2024 at **All India Radio (Prasar Bharati).**

- **AI Engineer Certification** | onerroadmap

  Awarded for passing the One Roadmap Skill Certification Test.