Cover Letter – AI Developer Internship Position

To
The Hiring Team
MetaUpSpace
Subject: Application for the Role of AI Developer

Dear Hiring Team,

I am writing to apply for the position of **AI Developer** at MetaUpSpace. With a strong academic foundation in Artificial Intelligence and Machine Learning, and extensive hands-on experience building and fine-tuning real-world ML and LLM-based applications, I am excited about the opportunity to contribute to your visionary projects.

During my ongoing internship at **Hustle AI Solutions**, I have been actively working on a document-based **QA system** built with **LangChain**, **Gemini 1.5**, and **Google GenAI Embeddings**, enabling real-time, context-aware answers over PDF/image inputs. I integrated **Mistral OCR API** for image-to-text extraction and used **FAISS** for semantic search, forming an efficient RAG pipeline for enterprise-scale document analysis.

My major project, **Vehicle Damage Detection using YOLOv8**, demonstrates my expertise in **Deep Learning and Computer Vision**, achieving over 63% precision and real-time inference via Flask APIs. I've also built a **Multimodal AI Doctor Chatbot** using **LLaMA 3 Vision**, **Whisper**, and Gradio for intuitive, real-time healthcare Q&A, combining image and audio understanding with LLMs.

One of my projects, **AI Doctor 2.0**, is a multimodal medical chatbot built using **GROQ LLM, LLaMA 3 Vision**, and **Whisper**. It enables real-time diagnosis through image, speech, and text input, with outputs delivered via **gTTS** and **ElevenLabs**. This project demonstrates my ability to integrate cutting-edge LLMs with multimodal inputs, reflecting my passion and capabilities in building GenAI applications.

In addition to technical skills in **Python, Django, React, Firebase, and SQL**, I've contributed to the academic and development community by mentoring over 150 students in DSA/CP and leading tech clubs like **Technocrats** and **CPByte**. I've solved over 700+ LeetCode problems and ranked in the top 4.5% globally.

I am passionate about creating robust, human-centric AI tools and believe MetaUpSpace's mission aligns with my vision of using **Generative AI and NLP** to solve impactful problems.

Thank you for considering my application. I've attached my resume and project portfolio for your reference. I would welcome the opportunity to contribute my skills and learn from your talented team.

Warm regards,
Archit Agrawal
LinkedIn Profile