

AI Engineer (LLM / NLP)

CORE TECH HIRE

DEPARTMENT AI Research & Development	LOCATION Delhi / Hybrid	EMPLOYMENT TYPE Full-time	REPORTS TO Founding Technical Lead
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ABOUT FUTURE FORGE LABS

Future Forge Labs builds high-precision AI systems for Patent Intelligence, combining cutting-edge NLP, vector embeddings, and Retrieval-Augmented Generation (RAG) to decode complex patent documents.

ROLE SUMMARY & MISSION

We are hiring an AI Engineer specializing in LLMs and NLP to design the core intelligence engines powering automated claim analysis, semantic patent search, prior art discovery, and infringement detection.

Primary Mission: *"Develop advanced AI engines powering patent search, similarity analysis, automated claim interpretation, and infringement detection."*

KEY RESPONSIBILITIES

- Design, build, and optimize high-accuracy RAG architectures, embedding models, and vector search systems.
- Fine-tune open-source and proprietary LLMs (OpenAI APIs, Azure OpenAI, Hugging Face) for complex legal domain reasoning.
- Develop robust document parsing and extraction pipelines for dense PDF, XML, and technical text formats.
- Implement vector indexing using FAISS, Pinecone, or Milvus along with enterprise search technologies like Elasticsearch.
- Establish quantitative AI benchmarking, evaluation frameworks, and hallucination reduction methods.

WHAT WE ARE LOOKING FOR

- 3–6+ years of strong Python engineering experience focused on NLP, Machine Learning, and LLM applications.
- Hands-on experience with RAG frameworks (LangChain, LlamaIndex) and LLM orchestration.
- Experience with vector databases (Pinecone, FAISS, Milvus) and search engines (Elasticsearch).
- Solid math/statistical background and experience writing efficient SQL queries.

NICE TO HAVE

- Experience processing legal, academic, or patent corpora.
- Demonstrated knowledge in semantic search optimization, hybrid search, or text extraction.

WHAT WE OFFER

- Work on real-world multi-modal LLM applications with complex enterprise requirements.
- Competitive salary and growth opportunities in a fast-paced AI lab.
- Collaborative hybrid work setup in Delhi.

How to Apply

Interested candidates can send their resume and portfolio/GitHub links to **careers@futureforge labs.in** with subject line *"Application: AI Engineer (LLM / NLP)"*.