

# Mohammad Ishaan Hasan Ansari

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## SUMMARY

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Machine Learning Engineer with nearly 3 years of experience architecting and deploying **production-grade** ML pipelines. Specialised in **Generative AI** workflows across range of real-world use cases.

## PROFESSIONAL EXPERIENCE

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- **Think Future Technologies Pvt. Ltd**  Oct'2025 - Present  
Gurugram, India
  - Software Engineer L2 (Machine Learning)
  - **CarDekho**
    - \* **Product:** AI-powered HRMS tool that automates workflows to improve HR efficiency and decision-making.
    - \* **Agentic RAG:** Implemented solution that combines document and database retrieval with a reasoning layer to produce personalized responses to complex HR queries.
    - \* **Impact:** Onboarded **2600+** employees, reduced manual handling of routine tasks by **42%**, resulting in a much efficient resolutions of queries.
  - **Together AI**
    - \* **Product:** Matchmaking platform, leveraging vector embeddings and fuzzy matching to generate meaningful connections and improve overall user engagement by **30%**.
    - \* **Feature Engineering:** Designed and implemented multi-parameter scoring algorithm to evaluate cross-field user compatibility, increasing match accuracy and relevance.
- **Think Future Technologies Pvt. Ltd**  Feb'2024 - Oct'2025  
Gurugram, India
  - Software Engineer L1 (Machine Learning)
  - **YHealth - GenAI health coach**
    - \* **Product:** Designed and piloted an AI-driven health coach specifically for diabetic patients to automate routine doctor-patient interactions.
    - \* **Retrieval:** Designed a multi-step retrieval pipeline utilizing **ChromaDB** for vector search and targeted meta-data filtering, boosting overall retrieval accuracy by **35%**
    - \* **Tools:** Built 4+ components, which includes food logging, next meal suggestion, digital twin & RAG-based chatbot for personalized action plans.
    - \* **Optimization:** Fine-tuned a model using **LoRA**, on clinical data to generate embeddings for downstream medical insights. Achieving a **15-20%** improvement in retrieval accuracy
    - \* **HIPAA Compliance:** Implemented end-to-end **PII anonymization** and secured third-party integrations, resulting in zero compliance incidents across external audits.
  - **BSES - BRPL/YPL**
    - \* **Document-Parsing Search Optimization:** Redesigning search algorithms to index and retrieve document sections, cutting average parse time from 600ms to 220ms.
    - \* **Impact:** Implementing relevance-based chunking to limit OpenAI API calls to critical text segments, reducing total monthly calls by **60%** (from 10,000 to 4,000).
  - **CAIR - Ministry of Defence**
    - \* **Layout Detection Model:** Developed a layout detection model to classify and segment newspaper content into articles, images, titles, and subtitles. Fine-tuned the model to achieve an accuracy exceeding **97%**.
    - \* **Language Detection:** Built and fine-tuned a language detection model using FastText, optimized for multiple Perso-Arabic languages.
    - \* **Language Translation:** Conducted R&D on translation models like **NLLB** and **M2M100**. Developed training, fine-tuning, and evaluation pipelines for multilingual translation tasks.
  - **Recruitment proctoring system**
    - \* **Product:** Designed and developed a proctoring system, integrated a real-time alerting mechanism to detect any unfair practice during campus hiring drives.
    - \* **Impact:** Minimized the need for manual intervention, Saved recruitment team **40 hours** of effort per hiring cycle.
- **Think Future Technologies Pvt. Ltd**  Aug'2023 - Jan'2024  
Gurugram, India
  - Software Trainee (Machine Learning)
  - Designed **CNN** architecture which reduces HEVC video compression artifacts by **6%** and leveraged GoogleNet's Inception blocks to reduce the number of learnable parameters by **50%**
  - Experimented with **GAN** architecture using 3 different loss functions (perceptual loss, smooth loss, and MSE loss) and performed hyperparameter tuning.

## EDUCATION

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- **Jamia Hamdard University**  
*Bachelor of Technology in Computer Science - 1st division with distinction*

*Aug'2019 - Jul'2023*  
New Delhi, India

## AWARDS & RECOGNITION

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- **Investor Presentations** *Sept'2025*  
*yHealth* [🌐]
  - Pitched the product [YHealth] to the panel of clinicians and venture capitalists at **ACCD 2025 - Asia Conference on Clinical Diagnostics**, garnering significant investor interest and strategic partnerships.

## PROJECTS

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- **Multi Modal Compliance Orchestration Engine** | 🌐 *Feb'2026*
  - Automated Video Compliance QA Pipeline to audit content against regulatory standards, with deep Full-stack observability dashboard with LangSmith, Following LLMOps best practices.

- **MIRAGE** | 🌐 *Dec'2025*
  - Multimodal RAG framework that integrates visual embeddings from medical images with retrieved clinical knowledge, leveraging dynamic prompt control to enhance interpretability in medical reasoning tasks.

- **Deep Learning** | 🌐 *July'2025*
  - Implementation of foundational deep learning architectures. This project aims to provide a deeper understanding of how neural networks function internally. without relying on high-level libraries.

## SKILLS

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- **Technical Skills:** Python, C, C++, PyTorch, TensorFlow, HuggingFace, FastAPI, LLMs (Fine-tuning & RAG), Agentic & Custom Frameworks, Vector Databases
- **Infrastructure & MLOps:** Kubernetes, Docker, MLFlow, DVC, AWS/GCP, Prometheus, Grafana
- **Product Development:** AI Product Management, Prototyping (Low/Hi-Fi), Risk Validation, & Deployment, and Iterative MVP Development.