

Mohammad Ishaan Hasan Ansari

+91-9634038353 | mihansari.jh@gmail.com | [ishaan-ansari.github.io](https://github.com/ishaan-ansari)

 [ishaanansari](#) |  [ishaan-ansari](#) |  [iamihansari](#) |  [code_breaker007](#)

SUMMARY

Machine Learning Engineer with more than 2 years of experience working at the intersection of computer vision and large language models.

PROFESSIONAL EXPERIENCE

• Think Future Technologies Pvt. Ltd [🌐]

October 2025 - Present

Gurugram, India

Software Engineer L2 (Machine Learning)

◦ Together AI

- * **Product:** Matchmaking application for High Net Worth Individuals (HNIs), focused on creating meaningful and curated matches.
- * **Scoring:** Implemented a more intuitive, multi-parameter scoring system that evaluates compatibility across fields.

◦ 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:** Reduced manual handling of routine tasks, and enabled faster, explainable recommendations for HR operations.

• Think Future Technologies Pvt. Ltd [🌐]

Software Engineer L1 (Machine Learning)

February 2024 - October 2025

Gurugram, India

◦ 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 with 15+ data readers and 13+ LLM calls, integrating filtering, recursion, and intent classification.
- * **Tools:** Built 4+ components, which includes food logging, next meal suggestion, digital twin, RAG pipeline, & chatbot for AI-driven action plans.
- * **Optimization:** Explored and benchmarked various techniques, optimized the inference pipeline and cut latency by 65%.
- * **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 3x faster, cutting average parse time from 6 s to 2 s.
- * **API-Call Reduction Logic:** 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), while maintaining 95% answer accuracy.

◦ 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%.
- * **Optical Character Recognition (OCR):** Implemented OCR to extract textual data from perso-arabic images and documents, achieving overall accuracy of 83%.
- * **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 system

- * **Proctoring System:** To ensure fairness during remote assessments developed a proctoring system was developed, improved accuracy by 22%, and reduced latency by 40%.
- * **Recruitment system:** Trained **Machine Learning Ranking Models** for ranking developers for jobs using **Gradient Boosting Decision Tree (GBDT)** and **Logistic Regression** models using **pandas**, **numpy**, **scipy**, **scikit-learn** and **lightGBM** frameworks.

• Think Future Technologies Pvt. Ltd [🌐]

August 2023 - January 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

- **Jamia Hamdard University**

Bachelor of Technology in Computer Science - 1st division with distinction

August 2019 - July 2023

New Delhi, India

AWARDS & RECOGNITION

- **Investor Presentations**

yHealth

Sept 2025



- Presented our product to doctors and investors at **ACCD 2025 - Asia Conference on Clinical Diagnostics**, receiving funding offers for a white-label version.

SKILLS

- **Technologies:** Python, C, C++, PyTorch, Tensorflow, LLMs, Agentic & Custom frameworks, Docker, Git/GitHub, FastAPI, HuggingFace, MLOps, Vector, Hybrid Databases, GCP, AWS.

- **Product development:** AI Product Management, Low and Hi-Fi Prototyping, Proof of Concepts, Risk Validation & Deployment, and Iterative MVP Development.