

# Mohammad Ishaan Hasan Ansari

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## 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

Software Engineer L2 (Machine Learning)

Gurugram, India

#### ◦ 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

February 2024 - October 2025

Software Engineer L1 (Machine Learning)

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 3× 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

Software Trainee (Machine Learning)

Gurugram, India

- 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*

*August 2019 - July 2023*  
New Delhi, India

## AWARDS & RECOGNITION

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- **Investor Presentations**  
*yHealth*
  - Presented our product to doctors and investors at **ACCD 2025 - Asia Conference on Clinical Diagnostics**, receiving funding offers.

*Sept 2025*



## SKILLS

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- **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.