



## Shaikh Mohd Areeb

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DOB: February 26, 2002

LinkedIn Github



### Summary

M.Tech CSE student focused on GenAI, NLP, and Machine Learning with hands-on experience building end-to-end, production-ready AI pipelines using LLMs, LangChain, FAISS, and Django.

### Education

#### Indraprastha Institute of Information Technology, Delhi

CGPA: 6.84

M.Tech (CSE)

2024 - 2025 (Present)

#### Anantrao Pawar College of Engineering and Research, Pune

CGPA: 8.24

B.Tech (AI & DS)

2020 - 2024

#### Sarosh Jr. College, Aurangabad, Maharashtra

Percentage: 66.92%

CBSE, Standard 12

2019 - 2020

#### Little Wonders English High School, Aurangabad, Maharashtra

Percentage: 86%

State board, Standard 10

2018 - 2019

### Skills

**Programming:** Python, C/C++, Bash

**ML & GenAI:** PyTorch, scikit-learn, Hugging Face Transformers, LangChain, FAISS

**LLMs:** FLAN-T5, BART, DeBERTa, Phi-2, OpenAI-style LLMs

**NLP:** Summarization, Question Answering, Embeddings, Retrieval-Augmented Generation (RAG), NER

**Data & Math:** NumPy, Pandas, Statistics, Probability, Model Evaluation

**Deployment & MLOps:** Django, REST APIs, Docker, CI/CD, DeepSpeed, Slurm, vLLM

**Tools:** GitHub, Google Colab, LibROSA, Matplotlib

### Projects

#### Perspective-aware Summarization for Healthcare QA

(Jan, 25 – Apr, 25)

**Guide:** Dr. Shad Akhtar

Team Size - 1

**Tools:** PyTorch, Hugging Face Transformers, FLAN-T5, BART, DeBERTa, Google Colab

- Built an NLP system to generate perspective-specific summaries from healthcare Q&A data using transformer-based models.
- Designed a dual-model architecture (classification + summarization) and benchmarked performance using ROUGE, METEOR, and BLEU.
- Conducted exploratory data analysis, validation experiments, and modular model evaluation workflows.

**Intelligent Learning Navigator for GATE Aspirants (ILNGA)**

(Jan, 25 – April, 25)

Guide: Dr. Rajiv Ratn Shah

Team Size - 6

Tools: Django, Python, LangChain, Google Generative AI, FAISS

- Designed and deployed a production-ready GenAI application enabling conversational document search and intelligent retrieval.
- Built end-to-end ML pipelines including data ingestion, embedding-based retrieval, and LLM inference.
- Implemented REST APIs, authentication, CI/CD workflows, and scalable deployment in a 6-member agile team.

**Large Deep Learning Systems (LDLS)**

(Aug, 25 – Dec, 25)

Guide: Mr. Bapi Chatterjee

Team Size - 3

Tools: Deepspeed, Slurm, Transformers, vLLM, Phi-2

- Conducted large-scale benchmarking (HumanEval) of Phi-2 before and after continued pretraining on the CodeParrot dataset.
- Trained and evaluated models on multi-node, multi-GPU clusters using Deepspeed on Param Rudra supercomputer.
- Compared inference latency, throughput, and scalability between Transformers and vLLM inference engines.

**Speaker Source Separation**

(Apr, 24 – Dec, 24)

Guide: Mr. Vinayak Abrol

Team Size - 4

Tools: Python, PyTorch, LibROSA, NumPy, SciPy, Matplotlib, scikit-learn

- Developed deep learning models using Conv-TasNet and spectrogram analysis for speech separation.
- Performed model validation, benchmarking, and deployment for ASR and speech enhancement pipelines.
- Collaborated in a 4-member team using GitHub and agile development practices.

**Positions of Responsibility**

- Led teams of 4–6, coordinating design, code reviews, and deployment workflows across academic projects
- Team Lead – Intelligent Learning Navigator for GATE Aspirants (ILNGA) (Jan 25 – April 25)
- Team Lead – Computational Creativity Project (Jan 25 – Present)
- Team Lead – Perspective-aware Summarization for Healthcare QA Project (Jan 25 – Apr 25)

**Awards and Achievements**

- Secured 533 score in GATE 2024 (CSE)

**Interests and Hobbies**

- Playing Chess, Foosball
- Sports – Football, Cricket, Badminton

Declaration: The above information is correct to the best of my knowledge.

Shaikh Mohd Areeb

Date: January 26, 2026