



Shaikh Mohd Areeb
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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 M.Tech (CSE) 2024 - 2025 (Present)	CGPA: 6.84
Anantrao Pawar College of Engineering and Research, Pune B.Tech (AI & DS) 2020 - 2024	CGPA: 8.24
Sarosh Jr. College, Aurangabad, Maharashtra CBSE, Standard 12 2019 - 2020	Percentage: 66.92%
Little Wonders English High School, Aurangabad, Maharashtra State board, Standard 10 2018 - 2019	Percentage: 86%

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 Guide: Dr. Shad Akhtar Tools: PyTorch, Hugging Face Transformers, FLAN-T5, BART, DeBERTa, Google Colab	(Jan, 25 – Apr, 25) Team Size - 1
<ul style="list-style-type: none">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)

Guide: Dr. Rajiv Ratn Shah

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

(Jan, 25 – April, 25)

Team Size - 6

- 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)

Guide: Mr. Bapi Chatterjee

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

(Aug, 25 – Dec, 25)

Team Size - 3

- 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

Guide: Mr. Vinayak Abrol

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

(Apr, 24 – Dec, 24)

Team Size - 4

- 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, Fooseball
- Sports – Football, Cricket, Badminton

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

Shaikh Mohd Areeb

Date: January 26, 2026