

# Akshat Shukla

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## SUMMARY

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Computer Science undergraduate specializing in NLP/LLMs, Machine learning, and MLOps.. Passionate about building and deploying scalable ML systems, with practical knowledge of MLOps tools and end-to-end model development pipelines.[click here](#).

## WORK EXPERIENCE

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### Ambassador - Z.ai

Dec 2025 - Present

- Represent Z.ai across online tech communities, promoting AI tools and real-world ML applications.
- Act as a liaison between the community and the core team, providing structured feedback to improve product reach and adoption.
- Facilitate knowledge-sharing around practical AI integration and emerging technologies.

### Campus Partner - Perplexity

Sept 2025 - Nov 2025

- Drove 100+ verified sign-ups through strategic outreach, workshops, and peer engagement.
- Promoted AI-powered research workflows for coding, academics, and productivity.
- Strengthened platform visibility within technical and non-technical student communities.

## PROJECTS

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### Whatsapp Persona

[Link to Demo](#)

Architected an end-to-end LLM fine-tuning pipeline to replicate conversational tone using Mistral-7B-Instruct with parameter-efficient adaptation (LoRA, 4-bit quantization). Built a custom preprocessing engine to sanitize real-world noisy chat data and constructed structured instruction-format datasets ( 2K samples). Trained and deployed the adapted model on T4 GPU with optimized memory footprint and probabilistic decoding controls for natural Hinglish generation.

### Student Competence Analysis

[Link to Demo](#)

Architected a reproducible evaluation framework leveraging CodeBERT for embedding-based static code analysis and CodeLlama for pedagogically guided feedback generation. Designed structured beginner–advanced datasets, implemented rubric-based scoring (0–5 scale), and built visualization dashboards to analyze model performance across accuracy, interpretability, and learning impact metrics.

## EDUCATION

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2023 - present	Bachelor of Engineering	<b>VIT Bhopal University</b>	(GPA: 8.68.0/10.0)
2022	Class 12th	ISC Board	(83.6)
2020	Class 10th	ICSE Board	(91)

## SKILLS

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Programming	Python, C++, SQL
Machine Learning	PyTorch, Transformers (HuggingFace), Scikit-learn, LoRA (PEFT), 4-bit Quantization, Embeddings
LLM	Mistral-7B, CodeBERT, CodeLlama, Prompt Engineering, Fine-tuning, Model Evaluation
Data Tools	NumPy, Pandas, Data Preprocessing, Feature Engineering, JSON Handling
Concepts	Git, GitHub, Google Colab (T4 GPU), Jupyter Notebook, VS Code, Linux
	NLP, Deep Learning, Supervised Learning, Evaluation Metrics, Model Optimization