


Akshat Shukla

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SUMMARY

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

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

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 VIT Bhopal University | (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 | NumPy, Pandas, Data Preprocessing, Feature Engineering, JSON Handling |
| Tools | Git, GitHub, Google Colab (T4 GPU), Jupyter Notebook, VS Code, Linux |
| Concepts | NLP, Deep Learning, Supervised Learning, Evaluation Metrics, Model Optimization |