

Adhita Sinha

M: +91 8307923586 | adhitasinha2022@vitbhopal.ac.in | www.linkedin.com/in/adhitasinha

OBJECTIVE

Computer Science Engineering student specializing in Machine Learning, NLP, and Data Analysis. Skilled in Python, C++, and Cloud Platforms, with hands-on experience in AI-driven applications, model deployment, and data pipelines. Seeking opportunities to apply technical expertise and problem-solving skills to impactful AI/ML projects

EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science & Engineering

CGPA – 8.56 (current)

Bhopal, Madhya Pradesh

2022-2026

PROJECT EXPERIENCE

1. Smart Notes Generator (AI-powered Lecture Notes System)

[GitHub](#)

- Developed an AI-powered notes generator that converts lecture recordings & slides into structured notes using speech-to-text (PyTorch) and Gemini API for content generation.
- Integrated image feature extraction for slides, resulting in enhanced contextual note generation.
- Designed for real-world productivity use cases, focusing on student efficiency & automated documentation

2. SHL Assessment Recommendation System (NLP & Semantic Search)

[GitHub](#)

- Built a semantic search-based recommendation engine to map job descriptions to relevant SHL assessments.
- Implemented Instructor-XL embeddings + FAISS vector search, improving query-matching precision.
- Evaluated with MAP@3 and Recall@3, achieving high accuracy in recommendation quality.
- Developed data pipelines for scraping, cleaning, embedding generation, and querying.

3. Infi Music Recording System (Full-Stack + ML)

[GitHub](#)

- Designed a hybrid audio application integrating ML backend (Jupyter, Python) with HTML/CSS/JavaScript frontend.
- Enabled music recording, playback, and audio signal processing.
- Demonstrated end-to-end development, combining machine learning and full-stack web technologies.

INTERNSHIP

Winter Internship – India Space Lab (ISL)

Dec 2024 – Jan 2025

- Worked on Advanced Drone Technology, CanSat & CubeSat (student satellites), Astronomy, and Space Entrepreneurship.
- Gained hands-on experience in designing and analysing aerospace & satellite systems.

SKILLS

- **Programming & Scripting:** Python (3.10), C++, JavaScript (HTML/CSS), Jupyter Notebooks
- **Machine Learning & AI:** Scikit-learn, PyTorch, Deep Semantic Search, Anomaly Detection
- **Natural Language Processing:** Sentence Embeddings (Instructor-XL), Gemini API Integration, Text Summarization
- **Cloud & Deployment:** AWS, Git, MySQL, MongoDB
- **Tools & Frameworks:** FAISS, Image Feature Extraction, PyTorch Audio, OpenCV (if used), Version Control (GitHub)

CO- CURRICULAR ACTIVITIES

- Core Member at Artificial Intelligence Club