# Varshith Pilli

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## SUMMARY

Generative AI and Backend developer skilled in Python, FastAPI, and cloud deployment. Led a 13-member AI research team at VIT. Actively conducting independent research in applied encryption.

## SKILLS

**Programming**: Python, C/C++, Java, Go, JS
**Libraries**: Huggingface, Langchain, PyTorch, Scikit-learn
**Technologies**: PosetgreSQL, MongoDB, FastAPI, Flask
**Tools**: Docker, Linux, Git/Github, VSCode

## EXPERIENCE

**Research Intern**                                                Jun 2025 – Aug 2025
*VIT Chennai*                                                        *Chennai, IN*

- Led a 13-member team in developing an AI research solution, resolving key challenges in data scraping and model fine-tuning.
- Engineered the knowledge pipeline using entity-relationship triplets to efficiently represent and utilize information for AI model knowledge retrieval.

## PROJECTS

**Text Media - Text Based Socializing App**                          github ↗

- Developed a secure FastAPI backend with JWT authentication and PostgreSQL storage, ensuring robust user data management.
- Built scalable RESTful APIs supporting full CRUD operations for a social post management system.

**Constituitioner – Generative AI Legal Assistant**                  github ↗

- Engineered a RAG-based legal retrieval system by processing, chunking, and vectorizing the Indian Constitution with Pinecone, cutting query response time by 30%.
- Integrated OpenRouter API with a custom GUI/CLI to stream real-time, context-aware LLM responses, enhancing user accessibility.
- Implemented advanced prompt engineering to minimize LLM hallucinations, improving answer reliability.

**Linear Algebra Toolkit**                                           github ↗

- Architected a Flask backend with 10+ linear algebra APIs, reducing calculation time by 40% for end-users.
- Delivered well-documented, modular REST endpoints that provide step-by-step solutions, enabling easy third-party integration.

## EDUCATION

**Vellore Institute of Technology, Chennai**                         Aug 2023 – Present
*Bachelor of Technology in CSE (spl. CPS) - 8.97*                    *Chennai, IN*

**Bhashyam College of Education**                                    Jun 2021 – May 2023
*Secondary Education - 95.1*                                         *Guntur, IN*

## CERTIFICATIONS

**Supervised Machine Learning: Regression and Classification** - Stanford University - Issued Jun 2025

**Generative AI with Large Language Models** - DeepLearning.AI - Expected Dec 2025

**Advanced Learning Algorithms** - DeepLearning.AI - Expected Dec 2025