

# Gowtham Valteru

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## TRAINING

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### Complete Machine Learning and Data Science

May' 24 – Jun' 24

GeeksforGeeks

- Completed a comprehensive Machine Learning and Data Science course covering data preprocessing, feature engineering, and model optimization. Developed and deployed ML models for real-world problem-solving using Python.
- Proficient in Machine Learning and Data Science tools and techniques, including supervised and unsupervised learning, regression analysis, and clustering methods.
- Gained expertise in data visualization techniques to uncover insights and patterns.

## PROJECTS

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### Personalized AI Health Assistant Using Multimodal Machine Learning / Python / [Link](#)

Mar'25-May' 25

- Designed and developed a multimodal AI health assistant integrating NLP (BERT), CNNs, and time-series models to analyze medical history, and wearable sensor data for personalized health monitoring and recommendations.
- Implemented a multimodal data fusion architecture with explainable AI techniques to ensure transparency and trust in health predictions, achieving over 90 percent accuracy in early disease detection tasks.

### AI-Powered Research Assistant (RAG System) / Python / [Link](#)

Nov'24-Dec'24

- Designed and deployed a domain-specific AI assistant that performs retrieval-augmented generation(RAG) over custom documents like PDFs and websites.
- Implemented semantic search using FAISS vector database and transformer-based embeddings (Sentence-BERT).
- Integrated LLM-powered Q&A pipeline using Hugging Face models to answer user questions with contextual awareness.

### AI Interview Coach Web App / Python / [Link](#)

Apr'24-Jun'24

- Built a full-stack AI Interview Simulator that generates job-specific technical interview questions and evaluates user responses in real-time.
- Leveraged OpenAI GPT-4 API to generate tailored questions based on user input (resume, job role). Analyze and score user responses on fluency, relevance, and depth.
- Designed a clean Django-based frontend with user authentication.

## CERTIFICATES

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Cloud Computing / NPTEL

Dec'24

Generative AI / Coursera

Jun'24

## TECHNICAL SKILLS

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**Languages:** Python, CPP, SQL

**Technologies/Frameworks:** Pytorch, Django, LangChain, Scikit-learn

**Tools/Platforms:** Git, GitHub, Ollama, Hugging Face

**Soft skills:** problem-solving, Adaptability and Team Management.

## EDUCATION

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### Lovely Professional University

Bachelor of Technology in Computer Science and Engineering – CGPA: 7.75

Aug' 22 – Present

Phagwara, Punjab

### VDA Junior College

Intermediate – CGPA: 9.7

Jun' 20 – Mar' 22

Vizag, Andhra Pradesh

### SASI E.M HIGH School

Secondary Education – CGPA: 10.0

Jun' 19 – Mar' 20

Tanuku, Andhra Pradesh