

Venkatraman G | Python Developer

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EDUCATION

Sri Shakthi Institute Engineering and Technology	Coimbatore, India
Bachelor of Technology in Artificial Intelligence and Data Science, GPA : 7.56/10	October 2021 – May 2025
Higher Secondary	Coimbatore, India
Nirmala Matha Convent Matriculation Higher Secondary School	June 2020 – March 2021

SKILLS SUMMARY

- Languages : Python, SQL, C
 - Frameworks : Django, React, Langchain, FAISS CPU, Chroma DB
 - Tools : ChatGPT 4o mini, Cursor IDE, Aider + Gemini, Continue AI
 - Platforms : Visual Studio Code, Jupyter Notebook
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WORK EXPERIENCE

Software Development Intern | Diagonal Labs | [Link](#) August 2024 – December 2024

- Collaborated with my team to develop a cost-effective Interview Bot project.
 - Personally contributed to budget planning, chatbot architecture design, and backend log monitoring.
 - Suggested suitable APIs for speech-to-text and text-to-speech functionalities.
 - Built and managed the conversational UI in React, ensuring seamless user interaction.
 - Deployed the system using Firebase (frontend) and Google Cloud Functions (backend).
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PROJECTS

Inventory for Vehicle Rental management | Object Oriented programming in Python

- Built a console-based application for bike and car rentals using Python and SQL.
- Applied MVC patterns for a modular efficient structure.
- Implemented CRUD operations and transaction tracking for data management.
- Demonstrated strong backend development and client-server architecture skills.

Chatroom Website | Django

- Developed a Chat Room Website using Django with the MVT architecture for scalability.
- Built an interactive chat interface using Django, HTML, CSS, and JavaScript.
- Implemented basic messaging features without channels and sockets.
- Deployed the application on Render, gaining experience in web hosting.

Chatbot with RAG | Retrieval-Augmented Generation |

- Developed a RAG-based chatbot using LLaMA 2, Langchain, and Sentence Transformers.
 - Utilized Chroma DB for vector storage and Hugging Face embeddings to enhance data processing.
 - Designed an intuitive UI with Chainlit for seamless user interaction and responsiveness.
 - Demonstrated expertise in LLMs, RAG techniques, and retrieval mechanisms.
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CERTIFICATIONS

- Django for Beginners | Udemy | [LINK](#):
Gained foundational knowledge in building web applications with Django.