

# SAI ABBHIRAM VALUPADASU

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## PROFESSIONAL SUMMARY

Computer Science graduate with strong skills in **Python, Generative AI, and Web Development**, seeking the role of **Gen AI Developer (Fresher)**. Hands-on experience in **LLM integration, RAG pipelines, and n8n workflow automation**, with projects spanning AI chat agents, semantic search, and recommendation systems. Enthusiastic about building AI-driven applications across domains.

## EDUCATION

### Vignana Bharathi Institute of Technology

- B.Tech in Computer Science & Engineering (Business Systems) | GPA: 7.8

Hyderabad

2021 – 2024

### Central Institute of Tool Design

- Diploma in Automation & Robotics Engineering | GPA: 7.7

Hyderabad

2019-2021

## SKILLS SUMMARY

<b>Programming:</b>	Python, C, Java, SQL, JavaScript
<b>AI/ML Frameworks:</b>	scikit-learn, TensorFlow, Keras, PyTorch, Transformers
<b>Generative AI &amp; NLP:</b>	LangChain, HuggingFace, OpenAI API, Ollama, Gemini
<b>Data Science:</b>	Pandas, NumPy, Matplotlib, Seaborn
<b>Databases:</b>	PostgreSQL, MongoDB, SQLite
<b>Automation &amp; Agents:</b>	n8n, RAG pipelines, Chat AI Agents, API Integrations
<b>Web Development:</b>	React.js, Next.js, Node.js, Express.js, HTML, CSS, Tailwind
<b>Tools &amp; Platforms:</b>	Git, GitHub, Docker, Streamlit, Jupyter Notebook, VS Code

## PROJECTS

<b>n8n AI Chat Agent</b>	2025
<ul style="list-style-type: none"><li>Built an AI Chat Agent using n8n with pluggable LLMs (Ollama/OpenAI).</li><li>Implemented Postgres-backed chat memory and RAG pipelines for contextual responses.</li><li>Integrated web search and external tools for live information and actions.</li><li>Delivered a production-ready orchestration workflow with logging, retries, and memory management.</li></ul>	
<b>LibraMindAI   <a href="#">LINK</a></b>	2025
<ul style="list-style-type: none"><li>Developed semantic book search and classification using ChromaDB and LangChain.</li><li>Integrated Ollama, OpenAI, and HuggingFace embeddings for flexible model support.</li><li>Processed and visualized a 6M+ book dataset for insights and discovery.</li></ul>	
<b>Cartlytics – Market Basket Analysis   <a href="#">LINK</a></b>	2023
<ul style="list-style-type: none"><li>Applied FP-Growth algorithm to extract association rules and identify purchase patterns.</li><li>Built an interactive Streamlit app with real-time visualization of metrics.</li></ul>	
<b>FashionX – Fashion Recommender System   <a href="#">LINK</a></b>	2023
<ul style="list-style-type: none"><li>Built a fashion recommendation engine using ResNet50 embeddings.</li><li>Deployed as a Dockerized Streamlit app with similarity search via Nearest Neighbors.</li></ul>	

## CERTIFICATIONS

<b>AWS Academy Cloud Foundations &amp; Machine Learning Foundations   AWS   <a href="#">CERTIFICATE</a></b>	2022
<b>Machine Learning, NLP &amp; Python   Infosys Springboard   <a href="#">CERTIFICATE</a></b>	2023
<b>Salesforce Admin &amp; Developer Virtual Internship   SmartBridge   <a href="#">CERTIFICATE</a></b>	2024
<b>Cyber Security 101   TryHackMe   <a href="#">CERTIFICATE</a></b>	2025

## STRENGTHS

- Strong foundation in Generative AI, RAG pipelines, and prompt engineering.
- Hands-on experience with AI workflow orchestration using n8n.
- Adaptable to new frameworks, fast learner, research-driven problem solver.
- Experienced in Agile teamwork and delivering AI-backed solutions.