

# Gantasala Sai Roopesh

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## EDUCATION

### Dayananda Sagar Academy of Technology and Management

B.E in Artificial Intelligence and Machine Learning

Bengaluru, India

May 2025

CGPA: 8.79/10

## EXPERIENCE

### Hewlett Packard Enterprise (HPE)

Bengaluru, India

Technology Consultant

Aug 2025 – Present

- Developing a Python-based automation framework to automate routine SAP Basis administrative tasks, including data extraction from system transactions (e.g., SM51).
- Engineered an integrated reporting module using Selenium for automated screenshot capture and ReportLab for dynamic PDF report generation, reducing manual effort.
- Implemented a real-time alerting system utilizing Python scripts and webhooks to send notifications via email and team channels based on predefined system health triggers.

Technology Consultant Intern

Feb 2025 – Aug 2025

- Managed end-to-end DevOps CI/CD pipelines using Jenkins, GitLab, SonarQube, and Nexus for applications deployed on bare metal and VM infrastructure.
- Architected and deployed a high-availability (HA) SAP HANA environment on a SUSE Linux Enterprise Server (SLES) cluster, configuring disaster recovery (DR) protocols.
- Implemented system-wide monitoring and visualization dashboards using Prometheus and Grafana, integrating webhooks for automated incident alerts.

## PROJECTS

### EduPersona: Personalised Learning System | Python, GCP, Vertex AI, LangChain, Streamlit

- Architected an AI-powered personal learning assistant using Streamlit and Google Cloud Platform for scalable performance.
- Integrated Google Vertex AI and Gemini models to dynamically generate quizzes and summaries from user-provided documents.
- Utilized LangChain for sophisticated document processing, embedding, and retrieval for a conversational chat interface.

### Kidney Disease Classification | Python, TensorFlow, MLflow, DVC, AWS, CI/CD

- Developed a deep learning model using TensorFlow/Keras for early-stage kidney disease classification from medical imaging.
- Implemented a complete MLOps pipeline, using DVC for data versioning and MLflow for experiment tracking and model logging.
- Established a CI/CD workflow with GitHub Actions to automate model training and deployed the model on AWS using EC2.

### Better Prompt Generator | JavaScript, Chrome Extension, Node.js, Azure AI

- Developed a Chrome extension using Manifest V3 to refine and improve user prompts via LLMs.
- Built a backend API with Node.js/Express, hosted on Render, to interface with the Azure AI Inference SDK.
- Designed a clean frontend with HTML and vanilla JavaScript for a seamless user experience within the browser.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, SQL, Java

**AI/ML:** TensorFlow, Keras, Scikit-learn, LangChain, Transformers, Librosa, Vertex AI, Gemini, OpenAI API, Azure AI

**Web & Backend:** Node.js, Express, Flask, Streamlit, Chrome Extension APIs, HTML/CSS

**MLOps & DevOps:** MLflow, DVC, Jenkins, GitLab, GitHub Actions, CI/CD, SonarQube, Nexus, Docker, AWS (EC2), GCP

**Databases & Tools:** SAP HANA, SAP Basis, SUSE, MongoDB, SQLite, Git, Selenium, ReportLab, Prometheus, Grafana