

# Shreerama D S

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## Summary

AI/ML Engineer with a B.Tech in Artificial Intelligence and Machine Learning (CGPA: 8.6) from Dayananda Sagar Institutions, experienced in LLMs, RAG pipelines, and Generative AI. Interned at Hindustan Aeronautics Limited(HAL) and Bulk Beings(Startup), building real-time AI solutions using Python, PyTorch, and TensorFlow. Published two IEEE research papers and contributed as a peer reviewer for NetACT 2025. Skilled in NLP, image processing, and end-to-end AI deployment.

## Education

### Bachelor of Technology in Artificial Intelligence

Dayananda Sagar University

Jan 2021 – June 2025

Expected Graduation: June 2025

CGPA: 8.6

Bangalore, India

## Skills

- **Programming Languages:** Python, HTML, CSS, SQL, C, JavaScript
- **Machine Learning:** Supervised & Unsupervised Learning, Classification, Clustering
- **Deep Learning:** NLP, CNN, RNN, LSTM, GAN, Autoencoders
- **AI Frameworks:** LLM, Generative AI, RAG, PyTorch, TensorFlow
- **Tools & Technologies:** GPT, BERT, APIs, Git, Jupyter, PyCharm, Replit
- **Data Analysis:** Pandas, NumPy, EDA, Data Visualization
- **Other:** GCP, Image Processing, Computer Vision, Problem-Solving

## Experience

### AI Engineer, Bulk Beings (Startup)

Jan 2025 – June 2025

- Built a real-time NOTAM Dashboard using **LLMs, RAG**, and **Qwen model** for aviation alerts.
- Integrated multi-source data pipelines and implemented **citation-backed responses**.
- Optimized **prompt logic** and deployed scalable **RESTful APIs**.

### AI Research Intern, Hindustan Aeronautics Limited (HAL)

July 2024 – Aug 2024

- Improved the **HiFiC model** for high-quality, **lossless** image compression.
- Enhanced **deep learning** performance through **model tuning** and **error resolution**.

## Projects

### 1. [\*\*Artisan Economy: AI-Powered E-Commerce Marketplace for Indian Artisans\*\*](#)

- **Description:** Built a full-stack AI marketplace enabling Indian artisans to sell globally. Implemented Vertex AI price optimization, product storytelling, and image enhancement, reducing seller onboarding time by 40%. Integrated Stripe/Razorpay payment flows with real-time analytics. Deployed secure, scalable architecture on Google Cloud Run with multi-stage Docker builds and auto-scaling.
- **Skills Highlighted:** Full-Stack Development, AI/ML, Cloud Computing, TypeScript, NestJS, Next.js, Payments, DevOps

### 2. [\*\*Cysinfo AI: Fine-tuned LLaMA 3.1 using LORA\*\*](#)

- **Description:** Fine-tuned **LLaMA 3.1** using **LoRA** and domain-specific datasets to achieve high contextual accuracy for cybersecurity and ethical hacking queries, improving response accuracy for Kali Linux commands by **20%**. Developed web interface, integrating advanced NLP APIs, deployed the model on **Ollama server**, optimizing query processing latency by **30%**
- **Skills Highlighted:** LLMs, Generative AI, AI Development

### 3. [\*\*DocuSense: Designed RAG-based assistant with Langchain\*\*](#)

- **Description:** Designed an AI-powered documentation assistant utilizing advanced **Retrieval-Augmented Generation (RAG)** with **LangChain**, **LLaMA 2**, and **Nomic Embed Text** to enable real-time query resolution and contextual awareness. Developed and deployed an interactive application using Streamlit, integrated with the Ollama server.
- **Skills Highlighted:** RAG , LLaMA 2, LangChain, Generative AI, AI Development, Streamlit, NLP.

### 4. [\*\*Voice Genius : It's Echoes of Intelligence\*\*](#)

- **Description:** Developed an AI-driven voice assistant using **OpenAI API** and **SpeechRecognition**. The application processes spoken questions and provides answers in both voice and text formats.
- **Skills Highlighted:** NLP, Speech Recognition, API Integration, Deployment

## Publications

1. “[\*\*Voice Genius: It's Echoes of Intelligence\*\*](#)” — Published in 15th IEEE ICCCNT Conference 2024.

2. “[\*\*CysinfoAI: Fine-Tuning LLaMA for Unrestricted Cybersecurity Insights\*\*](#)” — Published in 3rd International Conference NETACT 2025.

## Certifications

### [\*\*Machine Learning \(Coursera\)\*\*](#)

June 2023

- Completed **Andrew Ng's Machine Learning** course, gaining foundational skills in supervised and unsupervised learning, offered by **Stanford University**