

HARIHARAN S

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Experience

Global Knowledge

Dec 2023 – Jan 2024

AI-ML Intern

Coimbatore, India

- Implemented a text summarization module using Transformer models, achieving a 15% reduction in processing time for summarizing documents, and accelerated content delivery by 20% for end users.
- Designed an ML model using **KNIME** for user location filtering, contributing to a **Top 3 rank** in an in-house competition and deployed it with a user-friendly interface.
- Hands-on experience in ML, DL, NLP, and Generative AI (RAG, GANs, Stable Diffusion, Prompt Engineering) through 5+ projects, boosting model accuracy by 15% and reducing inference time by 30%.

Projects

LANGUAGE TRANSLATION MODEL, Using Encoder-Decoder architecture ↗

- Built a real-time translation tool using an LSTM encoder-decoder architecture, supporting **5+ language pairs** with reliable contextual understanding.
- Achieved high translation accuracy and low latency, with a **Improved processing speed by 30%** through architecture and memory optimizations.
- Developed the application using **Python, TensorFlow, Flask, and web technologies**.

MultiPrompt Image Model ↗

- Engineered a personalized multimodal question-answering system leveraging the **Gemini Pro API** and **zero-shot prompting**, achieving **90%+ accuracy** in visual inference tasks.
- Enabled flexible, cross-domain image understanding with **GenAI**, improving response precision by **35%** in diverse testing scenarios.
- Built an interactive and customizable interface using **Streamlit**, allowing users to tailor prompts and enhance the model's contextual understanding.

Spotify Streaming Dashboard with Enhanced KPIs ↗

- Designed a real-time Spotify Streaming Dashboard in Power BI by integrating the Spotify Developer API, achieving 99% data freshness.
- Visualized and analyzed over 10,000 playlists and user engagement metrics, including average playtime and playlist contribution to 1M+ total streams.
- Enabled continuous monitoring of top 100 tracks and artists, improving decision-making speed by 40% with up-to-date analytics.

Technical Skills

Programming Languages

Python, Java, Html, Css

Data Analytics

Numpy, Pandas, Matplot, Seaborn, Bigdata, PowerBI, Excel

Machine Learning

Supervised learning, Unsupervised Learning, clustering, Deep learning, NLP

Generative AI

LLM, GAN, Stable Diffusion, RAG, Prompt Techniques

Achievements

- Cleared GATE 2025 (Data Science & AI)**, one of India's most competitive exams, with a pass rate of approximately **10–15%**, demonstrating strong analytical and technical proficiency
- Published an IEEE paper titled "**Multimodal Content Generation: A Project for AI Creativity**" in 2024, cited 20+ times and presented at an international conference with 300+ attendees.
- Secured a **Top 3** position in the **national-level hackathon** organized by **GNU** in Hyderabad, focusing on innovative solutions for the given theme.

Education

Sri Eshwar College of Engineering, Coimbatore

Jun 2021 – Jun 2025

Bachelor of Technology in Artificial Intelligence and Data Science
(GATE 2025 Qualified – Data Science & AI)

CGPA - 7.9/10.00

Coursework: Python, Data Science, Big data, Machine Learning (ML), Deep Learning (DL), Natural Language Processing (NLP), Computer Vision, Gen AI.