HARIHARAN S

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Experience

Global Knowledge   **Dec 2023 – Jan 2024**
AI-ML Intern   *Coimbatore, India*

- Performed end-to-end data analytics including data cleaning, EDA, feature engineering, and statistical analysis, improving dataset quality and boosting insight accuracy by **20%** across multiple projects.
- Developed and optimized **Machine Learning, Deep Learning, NLP, and time-series models**, achieving an **18%** improvement in predictive accuracy and reducing model training cycles by **10%**.
- Implemented advanced Generative AI workflows (**RAG, GANs, Stable Diffusion, Prompt Engineering**) and built a transformer-based text-summarization module that reduced processing time by **15%** and accelerated content delivery by **25%**.

Projects

SimpleLingo 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.**

ChatDB Pro ⌁

* Developed an **AI-powered SQL** chatbot to enable natural language querying of PostgreSQL databases, allowing users to access structured data without writing SQL.
* Implemented context-aware query handling with session-based chat history, streaming responses, and fallback mechanisms, improving query accuracy and reducing manual SQL errors by **30-40%**.
* Engineered a secure and modular architecture for dynamic database connections, API key management, and scalable integration, reducing average data retrieval time by **35%** and supporting multiple business datasets.
* **Tech Stack: Python, Streamlit, LangChain, Groq LLM, SQLAlchemy, PostgreSQ**L.

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.
* **Tech Stack: Power BI, Spotify Developer API, DAX, Power Query , Python.**

Technical Skills

Tools & Libraries	Python, Sql, Excel,Numpy, Pandas, Matplot, Seaborn, PowerBI, Scikit-learn,Tensorflow
Core Analytics	Data Cleaning, EDA, Feature Engineering, Big Data, Statistics, Probability
Machine Learning	Supervised learning, Unsupervised Learning, Clustering, Deep learning, NLP
Generative AI	Transformer, LLM, GAN, Stable Diffusion, Prompting , Langchain, Time Series
Agentic Ai	Multi-Rag Agent, Phidata,Groq LLM, N8N, FastAPI

Achievements

- 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**.**
- Earned the **Google Advanced Data Analytics Professional Certificate**, demonstrating strong proficiency in statistical analysis, predictive modeling, and data-driven decision-making..
- Certified under Dubai's 1 Million Prompters Initiative, gaining expertise in Prompt Engineering and Generative AI

Education

Sri Eshwar College of Engineering, Coimbatore, India   **Jun 2021 – Jun 2025**
Bachelor of Technology in Artificial Intelligence and Data Science   *CGPA - 7.98/10.00*
(GATE 2025 Qualified – Data Science & AI)