

Sri Harish A

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SUMMARY

Results-driven Data Science and Machine Learning professional with 2+ years of experience developing and implementing ML solutions across multiple domains. Skilled in deep learning architectures, NLP techniques, and full-stack development. Demonstrated success in improving model accuracy by 15-80% and reducing processing time by 20-50%. Experienced in collaborating with cross-functional teams to create user-centric applications that enhance data accessibility and decision-making capabilities. Proficient in Python, SQL, and various ML frameworks with a strong academic foundation in Data Science complemented by consecutive academic excellence awards.

EXPERIENCE

ML & Software Engineer Trainee

Wise Work

September 2024 – March 2025, Bengaluru, India

- **Developed** and **optimized** machine learning and deep learning models, improving model accuracy by 15%.
- Explored various **ML and DL architectures** using different approaches, enhancing problem-solving skills.
- Implemented predictive models for real-world applications, reducing processing time by 20%.
- Learned and applied **C# and ASP.NET** to build backend solutions, improving development efficiency.
- Collaborated with a team to **fine-tune models** and debug issues, ensuring seamless deployment.

Deep Learning Intern

Council on Energy, Environment and Water

March 2024 – May 2024, New Delhi, India

- **Developed** an advanced deep learning model for Indian bovine breeds classification using YOLO and PyTorch framework, achieving an accuracy of 80%.
- **Designed** and **implemented** an interactive user interface with Gradio, increasing user interaction by 40%.
- **Deployed** the model on Hugging Face for seamless accessibility, resulting in a 35% increase in user engagement and data accessibility.
- **Integrated** RAG-based chat assistance to provide users with suggestions regarding agriculture, cattle, etc., enhancing user support by 30%.
- **Enhanced** the precision and efficiency of breed identification, significantly contributing to the agricultural sector's data analysis capabilities, reducing manual classification time by 50%.

Data Analyst Intern

Kumaraguru College of technology Business School

July 2023 – October 2023, Coimbatore, India

- Led **NLP project** on WhatsApp data analysis, **implementing end-to-end pipelines** that reduced insight generation time by 30%.
- Developed custom models for sentiment and thematic analysis, improving text-based insights accuracy.
- Created text preprocessing framework with **NER and POS tagging**, **achieving 90%** entity classification accuracy.
- Designed real-time reporting systems using Power BI and Streamlit, increasing user engagement by 50%.
- Applied state-of-the-art NLP techniques, improving **language understanding accuracy by 35%**.
- Integrated NLP insights into business processes, enhancing decision-making accuracy by 20% across departments.

PROJECT

Mentor: Architecting Tailored Learning Journeys for the Modern Mind

March 2025 – April 2025

- **Developed** Mentora, a scalable **AI-driven education platform**, integrating **machine learning and NLP** to **personalize learning journeys** and enhance educational outcomes.
- **Integrated four AI-powered modules** – Intelligent Chatbot, Content Extractor, Multi-PDF Assistant, and Smart Notes Generator – to create a **comprehensive, efficient learning ecosystem**.
- **Designed an Advanced AI Chatbot**, projected to **reduce student query resolution time by 60%**, with **YouTube/PDF tools cutting content processing time by 40%** per user.
- **Implemented a BERT-based Course Recommendation engine**, anticipated to **increase relevant course discovery by 30%**, improving **completion rates and search efficiency**.
- **Created a "Connect" feature** to foster **peer learning communities**, projected to **increase student engagement by 20%**, enhancing **retention and reducing learner isolation**.
- **Developed an interactive educator dashboard**, enabling **real-time progress tracking** and **personalized learning pathways**, expected to **improve personalization accuracy by 35%**.

Helixa: Orchestrating Precision Healthcare through Personalized Assistance

January 2025 – March 2025

- Spearheaded development of **Healix**, an AI-powered health platform integrating **OCR, LLMs, and RAG** to **revolutionize personalized healthcare** and simplify complex medical data.
- Engineered a **multimodal Vision Language Model (VLM)** with **89.7% image accuracy** and **4.3% voice WER**, enabling voice/image interaction for **instant, context-aware medical insights**.
- Implemented a **Mental Health Assistance module** with **91.6% emotion accuracy**, leveraging **facial recognition and Spotify integration** for **personalized emotional support**.
- Designed **specialized diagnostic modules** for **ECG Arrhythmia**, **Breast Cancer (96.2% accuracy)**, and **Brain Stroke (93.7% accuracy)** to democratize **early condition detection**.
- Created a **personalized Diet & Exercise System**, aligning **94.3% with dietitian guidelines** and boosting adherence by **68%**, transforming generic advice into **actionable wellness plans**.

- Integrated an **Analytics Dashboard and Doctor Finder/Appointment System**, providing **intuitive health visualizations** and **streamlined provider access** for **proactive healthcare navigation**.

EDUCATION

Bachelors in Data Science

- Kumaraguru College of Liberal Arts and Sciences · Coimbatore Tamil Nādu · 2025 · 9.0
- Consecutively awarded the Mahatma Gandhi Academic Excellence Scholarship for all three years.
 - Best Final Project of the Year 2025

SKILLS

Python , R , SQL , DBMS , Data Analytics , Machine Learning , Large Language Models , Deep Learning , Application Programming Interfaces (API) , Natural Language Processing , Flask , HTML , CSS , JS , Problem Solving , Communication
