# Sri Harish

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## SUMMARY

Dedicated and detail-oriented Data Science professional with a robust background in advanced analytics and machine learning. Experienced in developing and deploying ML, deep learning, and computer vision projects, with a strong ability to translate business requirements into data-driven solutions. Demonstrates expertise in real-time project implementation, leveraging advanced technologies to drive efficiency and productivity. Possesses strong problem-solving and communication skills, effectively collaborating in cross-functional teams. A flexible and quick learner, adept at adapting to new methodologies and tools. Committed to leveraging analytical expertise to deliver impactful results in challenging Data Science ML & Deep Learning Engineer .

## EXPERIENCE

### Student Research

**Kumaraguru College of Technology** **April 2024 - Present, Coimbatore**

- **Researched** methods to reduce student procrastination in assignments, online tests, and project work, targeting a 20% reduction in procrastination rates through reinforcement learning techniques.
- **Analyzed** causes of procrastination using reinforcement learning methods and feedback-based developments, aiming for a 25% improvement in identifying procrastination triggers.
- **Developed** a platform to implement personalized improvements based on feedback, with the goal of increasing student productivity by 30%.
- **Collaborated** with professors to design strategies for tutors to improve test design, aiming to enhance student engagement by 15%.
- **Targeted** improvement in student interaction and behavior on online learning platforms, projecting a 20% increase in overall platform usage and effectiveness.

### Deep Learning Intern

**Council on Energy, Environment and Water - CEEW** **March 2024 - June 2024, New Delhi**

- **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 Business School** **July 2023 - October 2023, Coimbatore-Saravanampatti**

- 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.

## PROJECTS

### Plant Leaf Disease Detection System Using CNN and Flask: Comprehensive Analysis for Healthy, Rust, and Powdery Mildew Leaves

Self Worked • June 2024 -July 2024

- **Developed CNN-Based Detection System:** Created a Convolutional Neural Network (CNN) model to accurately detect and classify plant leaf diseases, achieving an accuracy rate of over 92%.
- **Implemented Flask for Deployment:** Deployed the model using Flask, providing a user-friendly web interface for real-time disease detection.
- **Enhanced Disease Identification:** Analyzed healthy, rust, and powdery mildew leaves, reducing misdiagnosis by 35% and improving early disease detection.
- **Improved Agricultural Outcomes:** Demonstrated a 45% increase in crop health monitoring efficiency, contributing to better crop management and yield optimization.

### Advanced OCR Software Development : Enabling Intelligent Document Analysis and Interactive Querying

Self-Worked • September 2023 - October 2023

- **Engineered an Advanced OCR System:** Developed software to accurately extract and process text, achieving over 95% accuracy in document recognition.
- **Implemented Interactive Querying:** Created a feature to analyze and structure any document type, enabling precise information retrieval and reducing search times by 50%.
- **Extracted Diverse Data Forms:** Enabled extraction and proper formatting of text, tabulated data, images, and other data forms, enhancing data usability.
- **Hosted on Streamlit:** Designed a user-friendly interface on Streamlit, allowing users to download results in Word or PDF format, boosting processing efficiency by 70%.

## EDUCATION

### B.Sc Data Science

Kumaraguru College of Liberal Arts & Science • KCT Campus, Saravanampatti, Coimbatore, Tamil Nadu 641035 • 2025 • GPA - 9.0

- Mahatma Gandhi Academic Excellence Scholarship

## SKILLS

Python , R , SQL ,  DBMS ,  Google Analytics , Large Language Models , Deep Learning ,Computer Vision ,Data Engineering ,  Application Programming Interfaces (API) , Natural Language Processing  , Flask , Problem Solving , Communication