

Education

SNS College of Engineering Bachelor of Technology - Artificial Intelligence and Data Science ; CGPA - 9/10 (Till 6 th Sem)	Coimbatore Nov 2022 - Present
Sri Krishna CBSE & Matriculation Higher Secondary School SSLC - 90% & HSC - 85%	Dindigul Jun 2019 - May 2022

Skills Summary

Languages :	Python, R
Frameworks :	Pandas, Numpy, Scikit-learn, TensorFlow, NLTK
Tools :	Tableau, MySQL, Jupyter Notebook
Platforms :	Raspberry Pi, Google Colab
Soft Skills :	Leadership, Event Management

Experience

ZF Wind Power Coimbatore Private Limited Machine Learning Engineer	Coimbatore Jul 2024 - Aug 2024
Project 1 - Concentration Drop Analysis <ul style="list-style-type: none">Analyzed 4 years of data to predict and manage concentration drops in manufacturing using a Weighted Average algorithm.Utilized NumPy, Pandas, and a real-time tracking interface to optimize production efficiency.	
Project 2 - Forecasting Machine Failures <ul style="list-style-type: none">Developed an LSTM predictive model using TensorFlow, NumPy, and Pandas to forecast machine defects.Implemented a solution for proactive maintenance, reducing downtime by anticipating defect occurrences.	
IMAI Technologies AI Research Intern	Coimbatore Jun 2024 - Jul 2024
Project - Object Detection and Classification <ul style="list-style-type: none">Developed a YOLO-based object detection model in Python using OpenCV and TensorFlow Lite to classify vehicles as two-wheelers or four-wheelers.Deployed the optimized model on Raspberry Pi with a live camera feed, enabling real-time vehicle detection even in a low luminous environment	

Projects

Data-Driven Quality Control <ul style="list-style-type: none">Implemented machine learning techniques for quality control in manufacturing.Leveraged predictive models to detect defects in metal parts using real-time data, enhancing production reliability and minimizing waste.
Extracting and Summarizing PDF Data <ul style="list-style-type: none">Developed a Python script using PyPDF2 and NLP libraries to extract text from PDF files.Summarized paragraphs into single lines and generated keyword descriptions for efficient data management.
Basic Speech Recognition <ul style="list-style-type: none">Created a speech recognition tool using Python and Speech Recognition library.Processed audio data to recognize and transcribe spoken words, enabling seamless interaction with applications.

Certifications

<ul style="list-style-type: none">Data Structure - Great LearningGoogle Analytics - CourseraAzure AI Fundamentals - MicrosoftNPTEL - Industry 4.0 and Internet of Things

Volunteer Experience

Tech Lead – Generative AI Project <ul style="list-style-type: none">Guided seniors and successfully helped to complete 2 projects in Generative AI.
Event Organizer <ul style="list-style-type: none">Organized and managed the farewell event for seniors.