LAXMI CHANDRA SHEKAR AVIRE

Hyderabad, Telangana, India.

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Project intern at DLRL | DS & AI Undergrad at IIITDM Kurnool '25 | Aspiring Data Scientist

Projects

1. Automatic Lip-Sync video translator ○. 						**12/2024 - ongoing**
- Designed and implemented a GenAI and NLP based model capable of translating speech from source language to desired target language while ensuring the lip movements according to speech translated to target language with original voice of the actual speaker.

2. StairDepth: A Novel Staircase detection ○. 						**7/2024 - 10/2024**
- Developed a cost-effective staircase detection system by elimating the need for physical depth sensors for robotic locomotion and individuals with visual impairments, capable of functioning in challenging conditions(low light conditions, irregular staircases etc).
- Improved the precision by 5%, Recall by 10%, IoU by 7% compared to the previous research. **This project has been communicated for publication at Journal.**

3. Human Emotion Recognition System ○. 						**10/2023**
- Developed a deep learning model using a convolutional neural network (CNN) to recognize human emotions from facial expressions with an accuracy of 73.05%.
- Leveraged the AffectNet dataset for training and validation, implemented data preprocessing, and optimized model performance to achieve accurate emotion classification.

4. SQL Data Analysis Project: Pizza Sales Analysis ○. 						**11/2024**
- Conducted a comprehensive analysis of a PizzaHut database to derive actionable insights on sales trends, customer preferences, and revenue distribution.

Publications

- **Laxmi Chandra Shekar Avire**, Bhuvana Chandrika M, Hemanth Naidu V, Dr. Naresh Babu M.
  "StairDepth: A novel Staircase Detection through Depth Maps Generated by Depth Anything V2"
  International Journal of Information Technology, Singapore.
- DOI: 10.1007/s41870-025-02438-8.

Skills

Programming Languages: Python, C, C++, MySQL, HTML, CSS
Data Analysis and Visualization: PowerBI, Tableau, Excel
Machine Learning: Deep Learning, Computer Vision, NLP, GenAI, Image Processing
Frameworks: Hadoop, Spark, Docker, ReactJS

Experience

Project Intern at Defence Electronics Research Laboratory, Hyderabad 			**12/06/2024 – 31/08/2024**
Project Title: Development of AI Systems - Design and Testing Perspective
- Collaborating on the design and implementation of AI systems for Medical applications.
- Conducting rigorous testing and evaluation to ensure system reliability and efficiency.

Education

Indian Institute of Information Technology, Design, and Manufacturing, Kurnool 			**2021 – Ongoing**
B.tech in Artificial Intelligence and Data Science 						*CGPA - 7.50*

FIITJEE Junior College 						**2019 – 2021**
Intermediate 						*Percentage - 93%*

SR Sai Public School 						**2018 – 2019**
Class X, ICSE 						*Percentage - 95%*