

LAXMI CHANDRA SHEKAR AVIRE




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Objective

I'm an aspiring Data Scientist with a major in **Data Science and Artificial Intelligence** and a strong foundation in statistics, programming, and machine learning. My goal is to work on projects where I can apply advanced analytical techniques and build predictive models to create impactful, real-world solutions. I thrive on exploring data from different angles, uncovering insights, and turning them into actionable outcomes that drive progress.

Projects

- StairDepth: A Novel Staircase detection**  **10th Aug 2024 - 21st Oct 2024**
 - Developed a cost-effective staircase detection system by eliminating 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.**
- Human Emotion Recognition System**  **Oct 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.
- SQL Data Analysis Project: Pizza Sales Analysis**  **Nov 2024**
 - Conducted a comprehensive analysis of a PizzaHut database to derive actionable insights on sales trends, customer preferences, and revenue distribution.

Skills

Programming Languages: Python, C, C++, MySQL, OOPS in C++

Data Analysis and Visualization: PowerBI, Tableau, Excel

Machine Learning: Supervised Learning, Unsupervised learning, Deep Learning

Data Structures and Algorithms in Python, C, C++

Frameworks: Hadoop, Spark, Docker

Full Stack Web Development: ReactJS

Experience

Project Intern at Defence Electronics Research Laboratory, Hyderabad **12th June '24 – 31st Aug '24**

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%*