

# LAXMI CHANDRA SHEKAR AVIRE

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📁 [Portfolio](#)

🌐 [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** 🏆 7/2024 - 10/2024
  - 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** 🏆 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.
- 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.*
- Status: Accepted for publication (minor revisions completed), to appear in the proceedings.

## Skills

**Programming Languages:** Python, C, C++, MySQL, HTML, CSS

**Data Analysis and Visualization:** PowerBI, Tableau, Excel

**Machine Learning:** Supervised Learning, Unsupervised learning, Deep Learning, Computer Vision

**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%