

# Lakshmana Battula

Role: Software Engineer

B.Tech

Electronics and Communication Engineering

Indian Institute of Information Technology, Dharwad

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 lakshmanabattula953@gmail.com

 LinkedIn Profile

 Github

## EDUCATION

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- **Indian Institute of Information Technology, Dharwad**

*B.Tech - Electronics and Communication Engineering*

2020-2024

CGPA: 6.98

- **Sri Chaitanya Junior College, Vijayawada**

*MPC, Board of Intermediate Education, Andhra pradesh*

2017-2019

CGPA: 9.75

- **Saint Peter's High School, Adda-road**

*SSC, Board of Secondary Education, Andhra pradesh*

2016-2017

CGPA: 9.50

## PERSONAL PROJECTS

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- **E-Commerce Web Application**

*Programming Languages: Python, Flask (Back End Framework), HTML, CSS, Java Script (Front End)*

- Developed a dynamic and user-friendly e-commerce platform enabling users to browse products, register accounts, and perform secure transactions.
- Integrated OTP-based email verification for enhanced security and trustworthiness. – Demonstrated skills in full-stack development and user-centric design.

- **Traffic Sign Detection**

*Course project, under Dr. Mukesh Mishra, ECE Department, IIIT Dharwad*

- Implemented advanced CNN architectures to detect and classify traffic signs from real-world images, showcasing expertise in neural network design and optimization.
- Employed rigorous training and validation to fine-tune model parameters, ensuring robust performance across datasets.

- **Audio Video Synchronization**

*Course Project, under Dr. Nataraj K S, ECE Department, IIIT Dharwad*

- Developed a transformer-based model for video-audio synchronization with sparse signals, using learnable selectors for efficient feature summarization. Achieved linear complexity and evaluated performance on a curated dataset with 5-second video clips.
- The model identifies compression artifacts caused by audio and video codes as potential challenges for synchronization training but suggests these artifacts can be identified and mitigated to some extent.

- **Leaf Disease Detection**

*Major project, under Ms. Sadhvi, CSE Department, IIIT Dharwad*

- Developed a deep learning-based plant disease detection system using ResNet-50, VGG16, VGG19, and MobileNet. Integrated MobileNet into a mobile app for real-time diagnosis, enabling efficient disease detection in the field.
- Achieved high accuracy, with ResNet-50 excelling in performance and MobileNet in efficiency. Demonstrated deep learning's potential in agriculture, reducing crop losses while enhancing skills in deep learning, image processing, and data augmentation.

## TECHNICAL SKILLS

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- **Programming Languages :** Python, JavaScript, HTML, CSS

- **Frameworks :** Django, Flask, Node.js, React.js

- **DataBases :** MySQL, MongoDB

## CERTIFICATIONS

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-  **Python Full Stack | Codegnan**

-  **SQL | HackerRank**

-  **Python | HackerRank**