

# Lakshmana Battula

Role: Software Engineer

B.Tech

Electronics and Communication Engineering

Indian Institute of Information Technology, Dharwad

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🌐 LinkedIn Profile

🐙 Github

## EDUCATION

- **Indian Institute of Information Technology, Dharwad** 2020-2024  
*B.Tech - Electronics and Communication Engineering* CGPA: 6.98
- **Sri Chaitanya Junior College, Vijayawada** 2017-2019  
*MPC, Board of Intermediate Education, Andhra Pradesh* CGPA: 9.75
- **Saint Peter's High School, Adda-road** 2016-2017  
*SSC, Board of Secondary Education, Andhra Pradesh* CGPA: 9.50

## PERSONAL PROJECTS

- **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

- **Programming Languages :** Python, JavaScript, HTML, CSS
- **Frameworks :** Django, Flask, Node.js, React.js
- **DataBases :** MySQL, MongoDB

## CERTIFICATIONS

- 🐍 Python Full Stack | CodeGyan
- 🐍 SQL | HackerRank
- 🐍 Python | HackerRank