Lakshmana Battula

Role: Software Developer
B.Tech
Electronics and Communication Engineering
Indian Institute Of Information Technology Dharwad

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🌐 Personal Website
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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 trustworthi ness.– 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 | Codegnan**
- 🔗 **SQL | HackerRank**
- 🔗 **Python | HackerRank**