

P BALAJI

Chittoor, Andhra Pradesh

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Education

Indian Institute of Information Technology Dharwad

Bachelor of Technology in Electronics and Communication Engineering (CGPA: 7.06)

Dec 2020 – Jul 2024

Hubli-Dharwad, Karnataka

Narayana Junior College

Board of Intermediate Education, Andhra Pradesh (CGPA: 9.57)

2018 – 2020

Tirupati, Andhra Pradesh

Vidya Vihar High School

Board of Secondary Education, Andhra Pradesh (CGPA: 10)

2017 – 2018

Chittoor, Andhra Pradesh

Projects

Leaf Disease Detection

Dec 2023 - Apr 2024

- Developed an advanced plant disease detection system using ResNet-50, VGG16, VGG19, and MobileNet for accurate identification of plant diseases from leaf images. Key tasks included data collection, model training, and comparative analysis, with MobileNet deployed in a mobile app for real-time diagnosis.
- Achieved high accuracy, with ResNet-50 excelling in performance and MobileNet in efficiency. The project demonstrated deep learning's potential to reduce crop losses and improve yield, while enhancing skills in deep learning frameworks, image processing, and data augmentation.

Fake Product Identification

Aug 2023 - Oct 2023

- Created a blockchain-based system using Ethereum to verify product authenticity and reduce counterfeit risks. The system tracks product information securely, ensuring transparency in the supply chain.
- Used smart contracts and cryptography to verify and trace products, while data analysis helps spot fake items quickly. This project showcased strong blockchain knowledge and practical solutions to fight counterfeiting.

Traffic Sign Recognition System Using Deep Learning

Jan 2023 - May 2023

- Implemented state-of-the-art CNN architectures to effectively detect and classify traffic signs from real-world images, demonstrating a keen understanding of neural network design and optimization. Employed rigorous training and validation methodologies to fine-tune model parameters, ensuring robust performance across diverse traffic sign datasets.
- Achieved an exceptional accuracy rate of 99.06

Technical Skills

- Programming Languages:** C, Python
- Web Technologies:** HTML, CSS, Javascript, Flask
- Tools and Frameworks:** Jupyter Notebook, Visual Studio, Microsoft Office, MySQL
- Operating Systems:** Windows, Linux and Android
- Soft Skills:** Leadership, Creativity, Time Management, Team Work

Key Courses Taken

- CSE and Maths:** Calculus, Programming and Data Structures, Introduction to Algorithms, Linear Algebra, Probability and Random Process
- Electronics and Communication:** Digital Image Processing, Analog Electronics, Analog and digital Communication Systems, Control Systems

Certifications

Data Structures and Algorithms

Certification

Udemy

SQL Advanced

Certification

HackerRank