

# Lahari Sanapala

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## SUMMARY

Enthusiastic Computer Science student with hands-on experience in Full Stack Development, Machine Learning, Deep Learning, and NLP. Skilled in fine-tuning Generative AI models and in-context learning. Passionate about leveraging innovative technologies to build scalable, impactful solutions.

## EDUCATION

<b>Bachelor of Technology in CSE</b>	2022 - Present
Rajiv Gandhi University of Knowledge Technologies <b>CGPA: 9.1/10.0</b>	
<b>Pre-University Course (MPC)</b>	2020 - 2022
Rajiv Gandhi University of Knowledge Technologies <b>CGPA: 9.9/10.0</b>	
<b>SSC Board Examination</b>	2016 - 2020
Zilla Parishad High School (Chinnabadam) <b>CGPA: 596/600</b>	

## PROJECTS

### AgriSense - Smart Farming Assistant Bot

- Addressed key agricultural challenges like crop disease detection, yield forecasting, and financial planning using real-time data and predictive analytics.
- Developed a multi-page website (Home, About, Support, Prediction, Authentication) with an integrated chatbot for farmer assistance.
- Implemented ML models for crop yield predictions and disease detection using CNNs.
- Built a responsive platform using React.js, Node.js, Express.js, MongoDB, and Flask.

### Image Classification using Convolutional Neural Networks (CNNs)

- Built a CNN model on the CIFAR-10 dataset (60,000 images, 10 classes), achieving an accuracy of 75% through optimized architecture and training.
- Designed a robust CNN architecture with Conv2D, Batch Normalization, MaxPooling, and Dense layers, using Adam optimizer for training.
- Evaluated model performance using metrics like accuracy, precision, and recall, demonstrating effective classification capabilities.

## SKILLS

- **Programming Languages:** Python, C, JavaScript
- **Web Development:** HTML, CSS, Bootstrap, React, Node.js, Express.js
- **Databases:** MySQL, MongoDB
- **Machine Learning & AI:** Pandas, Numpy, Matplotlib, Scikit-learn, TensorFlow, NLP (NLTK, Hugging Face Transformers)
- **Version Control:** Git, GitHub

## CERTIFICATIONS

- Crash Course on Machine Learning at Code Civy (March 2023)
- Certificate of Course Completion at Teachnook (July - August 2024)
- Certificate of Internship Completion at Teachnook (July - August 2024)
- Participated in Prod-E-G Hackathon conducted by Unstop (November 2024)