

VENKATA SAI MODHEPALLI

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EDUCATION

Vellore Institute of Technology, Amaravathi

B.Tech in Computer Science and Engineering | 2021 – 2025

CGPA: 8.59

Sasi Junior College, Velivennu

Intermediate (MPC) | 2019 – 2021 | 97%

Narayana High School, Nellore

10th (SSC) | 2018 – 2019 | CGPA: 10

PROJECTS

The AI Catalyst Hub: Empowering Businesses with ML

Link: [Git Link](#) | [Live Demo](#)

Technologies: Python, Flask, Machine Learning, Deep Learning

- Developed a B2B platform delivering ML/DL solutions across healthcare, agriculture, pollution, and business sectors, enabling startups and SMEs to integrate AI capabilities.
- Built and deployed multiple models including eye disease classification using a hybrid Swin Transformer and EfficientNet architecture, sentiment analysis (DistilBERT), customer churn prediction (Random Forest), and environmental quality prediction (AQI & water quality).
- Implemented interactive UI using Flask, incorporated model training and visualization features, and enabled model deployment for client use, aiding data-driven decision-making.

Crop Quality Prediction Using Convolutional Neural Networks

Link: [Git-Repo](#) | [Live Demo](#)

Technologies: CNN, Python, Flask

- Developed and optimized a Convolutional Neural Network (CNN) model for real-time crop quality prediction, classifying images into different quality levels.
- Integrated a user-friendly interface to automate the quality assessment process, enhancing efficiency in agricultural practices.

Student Library Management System

Link: [Git -Repo](#)

Technologies: Python, Flask, SQLAlchemy, HTML, CSS

- Developed a Student Library Management System using Python to manage library books and student interactions, allowing students to borrow, return, and donate books.
- Integrated SQLAlchemy for efficient CRUD operations on book and user data, and designed a user-friendly interface with HTML and CSS to enhance system accessibility.

LINKS

[LinkedIn](#)

[GitHub](#)

[Hacker rank](#)

[LeetCode](#)

SKILLS

Web Technologies:

HTML, CSS

Programming Languages:

Python, Java

Databases:

SQL

Relevant Skills:

Data Structures, OOPS

Machine Learning

Deep Learning, Data Science

Flask, FastAPI, REST APIs

Pandas, NumPy

Git, Problem Solving

CERTIFICATES

- Artificial Intelligence and Machine Learning Powered by Google Developers -Course by SmartInternz [December 2023]

ACHIEVEMENTS

- Solved 500+ problems on LeetCode, focusing on data structures and algorithms.
- Achieved Global Rank 840 in Code Chef Division 3, demonstrating coding proficiency and competitive programming skills.
- Secured a rank of 2658 out of 1,66,460 students in the AP EAPCET 2021 exam.

EXTRACURRICULARS

- Member of the technical team at the GeeksforGeeks (GFG) Club, contributing to organizing technical events