Madasu Kumar Venkat

Undergraduate

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EDUCATION

- Marri Laxman Reddy Institute of Technology (Affiliated by JNTUH)   **2022-2026**
  Information Technology | **CGPA :9.61**
- Shree Akshaya Junior College (Class *XII)* / **Aggregated** : **98.4%**   **2020-2022**

SKILLS SUMMARY

- **Languages:**   C, Java, Python, DSA, MySQL, React, JavaScript, Html, CSS.
- **Frameworks:**   Pandas, Numpy, Scikit-Learn, Matplotlib.
- **Tools:**   Jupiter Notebook , VS Code, GitHub, Figma ,Eclipse ,Microsoft Excel.
- **SoftSkills:**   Teamwork ,Adaptability , Communication ,Critical Thinking , Reactive Building
- **Core Courses :**   Object-Oriented Programming, DBMS, Computer Networks, Operating System.

WORK EXPERIENCE

- **Walmart USA Advanced Software Engineering Virtual Program on Forage -**   **April 2025**

  Successfully completed the Advanced Software Engineering Job Simulation at Walmart, solving complex technical projects across various teams.

  Developed a novel heap data structure in Java for Walmart's shipping department, designed UML and ER diagrams for data processing and database management in different department. **Certificate.!**

PROJECTS

- **Early Cure: AI Based disease detection using palm** [Achieved Acuuracy of 90%]
  - Inspired by ancient Hindu practices, Early Cure leverages deep learning techniques like CNN, image processing, and feature extraction to analyze palm line patterns for early disease detection. Using technologies such as OpenCV, TensorFlow, and Python, the system processes palm images to identify patterns linked to disorders it enables timely diagnosis and intervention. View..!
- **Crop Yield Prediction**   *[Achieved Accuracy of 96%]*
  - Developed a Decision Tree Regression model in Python to predict crop yields in future based on environmental factors. Trained on 25,000 data points, it analyzes temperature, humidity, and soil quality to provide yield predictions in future, helping farmers. **View.!**
- **Smart AR Navigation System for Railway Stations.**
  - Developed an AR-based navigation solution for railway stations, enhancing accessibility with real-time directions, 3D maps, voice guidance, and seamless integration with railway services. Built using React Js ,Leaflet.js, Google API, and AR navigation, MySQL. **View.!**
- **Next-Gen Gate Pass Automation**
  - Developed a GPMS Dynamic web app using JavaScript and C# for seamless online gate pass requests, enhancing security with visitor tracking and digital passes. **View.!**

EXTRACURRICULAR ACTIVITIES /ACHIEVEMENTS

- **Finalist** in **Innovation Challenge** by **CIE**(Centre for Innovation and Entrepreneurship). **MLRIT** in building RealTime Project.
- **Startup Cohort 4.0 (2024):** As part of this cohort, I took on responsibilities centered around innovation and problem-solving. Being involved in ThinkQ Bator implies my active participation.
- Competed in the **Hackathon at WOXEN UNIVERSITY** achieving **runner-up** status, **in** developing the Machine learning project .Showcased Skills in many Hackathons across different institutions.

CERTIFICATIONS

- **Certified Smart Coder** in **DSA** and secured a **Bronze certificate in Smart Interviews**   View..!
- **Core Java Programming –** NPTEL, IIT Kharagpur, Online (Jan 2024 - Apr 2024)   **View..!**
- **Introduction to Machine Learning -**NPTEL, IIT Madras, Online(Jul 2024 – Oct 2024)   **View..!**
- **Python Essentials 1-** Cisco Networking Academy Online(November 28, 2024)   **View..!**
- **Programming Essentials in Python** – OpenEdDG, Online (Feb 2024 - Mar 2024)   **View..!**
- **Python 101 for DataScience -**IBM PY0101EN (Cognitive Class AI) (Aug2023) **View..!**
- **Figma Web development-** CodeTech IT solutions Intern [Virtual] (Sep 2024-Oct 2024) **View..!**