

# NARALA VENU GOPAL REDDY

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## Profile

Final-year B.Tech Computer Science (AI & Data Science) student with hands-on experience in software product development, AI-driven systems, and full-stack web applications. Strong background in building scalable digital products involving machine learning, cloud platforms, REST APIs, and user-facing interfaces. Comfortable working across the entire software development lifecycle including system design, implementation, testing, and deployment. Seeking a Software Engineering Internship to contribute to innovative, AI-powered products.

## Education

### Bachelor of Technology in Computer Science (AI & Data Science)

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

2022 – 2026

CGPA: 8.0

### Chaitanya Junior College

Board of Intermediate Education, Andhra Pradesh

2022

Percentage: 77%

### All Saints English Medium School 2019–2020

Board of Secondary Education, Andhra Pradesh

2020

Percentage: 92.6%

## Technical Skills

- **Core CS :** Data Structures, Algorithms, Object-Oriented Programming (OOP), REST APIs
- **Programming:** Python, C, JavaScript
- **AI/ML:** CNNs, Scikit-learn, TensorFlow, Keras, Model Evaluation, OpenCV, MediaPipe
- **Product & Web :** HTML, CSS, JavaScript, Flask, PHP, Bootstrap
- **Databases:** SQL, MySQL
- **Cloud & Platforms:** AWS (Foundations), Google Colab
- **Data & Analytics:** Pandas, NumPy, Matplotlib, Power BI, Excel, MS Office
- **Dev Tools:** Git, GitHub, VS Code, Jupyter Notebook
- **Generative AI:** OpenAI API, Gemini API, Prompt Engineering

## Projects

### AI-Powered X-Ray Visualization and Pneumonia Detection

Designed and deployed an end-to-end AI product to detect pneumonia from chest X-ray images using deep learning. Integrated Grad-CAM explainability to generate visual heatmaps for clinical interpretation. Built a Flask-based web application enabling real-time image uploads and predictions.

**Impact:** Demonstrates real-world AI system from data → model → explainability → UI.

**Tools:** Python, TensorFlow, Keras, OpenCV, Flask

### Smart Cursor Control System for Differently-Abled Users

Developed an AI-driven human-computer interaction system enabling hands-free cursor control through facial landmark tracking. Translated real-time video input into system-level actions using computer vision.

**Relevance:** Strong alignment with XR/immersive interaction systems.

**Tools:** Python, OpenCV, MediaPipe

### Intelligent Payment Fraud Detection System

Built a machine learning pipeline to detect fraudulent financial transactions using classification algorithms. Implemented data preprocessing, feature engineering, and performance evaluation to improve model ac-

curacy and reduce false positives.

**Tools:** Python, Scikit-learn, Pandas

- **Inventory Management Web Application**

Developed a full-stack digital product with role-based authentication and complete CRUD operations for managing inventory and users. Designed responsive UI and integrated backend database for real-time updates.

**Tools:** HTML, CSS, JavaScript, PHP, MySQL

## **Experience**

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### **Web Development Intern – LearnFlu**

Worked on real-world web application modules, developing responsive UI components and backend integrations. Performed debugging, testing, and followed structured development workflows. Strengthened skills in product development, code quality, and system-level thinking.

## **Certifications**

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- AWS Academy Cloud Foundations – AWS Graduate
- Cisco – Python & Networking
- Wipro TalentNext – Data Science
- JPMorgan – Software Engineering Virtual Program
- Deloitte – Data Analytics Program