

# ITHA VENKATA SAI MANIKANTA

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## Profile

A motivated and proactive student from the software and AI Engineer domain with a strong foundation in problem-solving, technology, and innovation. Quick learner with a passion for applying machine learning, AI, and data science to build effective solutions and adapt to new challenges. Skilled in software development, data analysis, and teamwork, with strong analytical abilities and a commitment to continuous learning and growth.

## Education

### Dr. MGR Educational And Research Institute Of Technology

Bachelor of Technology

2023 – Present

CGPA: 8.01

### Sri Chaitanya Junior College

Board of Intermediate Education, Andhra Pradesh

2021 – 2023

Percentage: 91.2%

### Narayana EM School

State Board of Secondary Education

2010 – 2021

Percentage: 96.2%

## Skills

**Programming Languages:** Python, Java, SQL, C, R

**Databases/cloud:** Excel, MySQL, MongoDB

**Developer Tools:** VS Code, Eclipse, Jupyter Notebook, PowerBI

**Relevant Coursework:** Data Structures Algorithms (DSA), Database Management Systems, Computer Networks, Operating Systems

**Soft Skills:** Communication, Adaptability, Team building skills, Creativity, Leadership, Problem solving

**Languages:** English(Proficient), Telugu, Hindi

## Projects

### Gas Leakage Detection System Using Arduino / C, Arduino

- Built a gas leakage detection system using Arduino and C, integrated with IoT for real-time monitoring and alerts. Sensors select hazardous gas levels and trigger safety measures such as buzzer, LED indicators, and exhaust fan activation, while IoT connectivity enables instant notifications to registered contacts, enhancing safety in both home and industrial environments.

### Hotel Review Sentiment Analysis / Python

- The Hotel Review Sentiment Analysis project uses GenAI and NLP to classify hotel reviews as positive, neutral, or negative. By analyzing customer feedback automatically, it helps hotels quickly identify strengths, spot issues, and make data-driven improvements, enhancing guest satisfaction and overall service quality efficiently.

### Infant Safety System / Python, Raspberry Pi

- The Infant Safety System is a cost-effective prototype using Raspberry Pi, camera, ultrasonic sensor, buzzer, and motor driver to monitor infants. It tracks movement, maintains a safe distance, and triggers alerts when limits are crossed. This system ensures affordable, automated infant monitoring with potential future upgrades like AI recognition and IoT alerts.

## Certifications

- [AI for Everyone in COURSERA](#)
- [Generative AI using IBM WatsonX](#)

## Athletics

- Cricket

Left hand Batsman/Right arm pacer

Dedicate over 15 hours a week to training, practice and games