

# VANGALA JAYA SAI KUMAR REDDY

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## Career Objective

To secure a career-building opportunity in the field of artificial intelligence or machine learning, where I can apply my programming skills and contribute to real-world projects that create a positive impact on society. I seek to continuously learn and grow in a dynamic, flexible environment.

## Summary

B.Tech Computer Science and Engineering (AIML) student with a strong interest in artificial intelligence and machine learning. Skilled in Java, Python, SQL, data structures and algorithms (DSA), and C programming. Enjoys problem solving, leading teams, and collaborating on projects. Seeking an opportunity to apply technical knowledge and build impactful real-world solutions.

## Skills

**Programming Languages:** Java, Python, C, SQL, HTML, CSS, JavaScript

**Concepts:** Data Structures and Algorithms (DSA), Machine Learning Algorithms, Data Analytics

**Other:** Problem Solving, Project Management, Team Leadership, Peer Mentoring

## Experience

**Student Team Leader – Handwritten Digit Recognition Project (Academic)** Jul 2025 – Nov 2025 (Ongoing)

*Kalasalingam University, Tamil Nadu, India*

- Led a team of 4 students in developing a deep learning model for handwritten digit recognition.
- Guided implementation of CNN architecture using TensorFlow/Keras to train and test on the MNIST dataset.
- Facilitated collaboration by conducting peer-learning sessions and helping resolve technical challenges.

**Student Team Leader – Diet Type Prediction Project (Academic)** Dec 2024 – Mar 2025

*Kalasalingam University, Tamil Nadu, India*

- Supervised a group of 4 students in building a machine learning model to predict diet type based on daily food intake, calories, work pattern, and existing diseases.
- Applied Decision Tree and Naive Bayes algorithms to train and test the model on collected data.
- Coordinated task distribution, tracked progress, and organized knowledge-sharing sessions.

## Projects

### Handwritten Digit Recognition Using Deep Learning

Sep 2025(Ongoing)

- Implemented a CNN-based deep learning model to recognize handwritten digits (0–9).
- Trained and tested the model using the MNIST dataset, achieving high accuracy in digit classification.
- Gained experience in working with TensorFlow/Keras libraries for deep learning applications.

### Vehicle Type Recognition Using Deep Learning

Jul 2025

- Developed a deep learning model to classify vehicles into categories such as car, motorcycle, truck, and bus from given images.
- Utilized Convolutional Neural Networks (CNNs) for feature extraction and classification.
- Collected and preprocessed image datasets, applied augmentation techniques, and evaluated model accuracy.

### Diet Type Prediction Using Machine Learning

Dec 2024 – Feb 2025

- Built a machine learning model in Python to predict diet type (e.g., balanced, high-protein, low-carb) based on daily food intake, calories, work patterns, and existing health conditions.
- Implemented Decision Tree and Naive Bayes algorithms for training and testing the model.
- Collected and preprocessed data, and evaluated model accuracy using standard metrics.

### Personal Portfolio Website

April 2025

- Designed and developed a personal portfolio website to showcase projects, skills, and achievements.
- Used HTML, CSS, and JavaScript to build an interactive and responsive interface.
- Included sections highlighting machine learning projects, coding skills, and academic background.

## Education

### B.Tech. Computer Science and Engineering (Artificial Intelligence and Machine Learning) 2023 – 2027

Kalasalingam Academy of Research and Education, Tamil Nadu, India

CGPA: 8.46

### Intermediate (MPC)

2021 – 2023

Ignite Junior College, Hyderabad, India

Percentage: 90.4%

## Languages

English, Hindi, Telugu

## Hobbies

Reading, Sports, Problem Solving