



# SHRI SIVA J

AI&DATA SCIENCE ENTHUSIAST

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📍 Erode, Tamil Nadu, India

## EDUCATION

**Bachelor of Technology-Artificial Intelligence and Data Science**

Erode Sengunthar Engineering College - 80%

2021 - 2025

**HSC**

The Sengunthar Higher Secondary School - 81%

2020 - 2021

**SSLC**

Government Boys Higher Secondary School - 75%

2018 - 2019

## SKILLS

- Python
- Django Framework
- HTML
- CSS
- JavaScript
- Machine Learning
- Data Visualization
- Data Analytics
- SQL
- Excel
- Power BI

## INTERESTS

- Artificial Intelligence
- Data Science
- Web Development
- Data Analytics
- Machine Learning
- Business Development

## CERTIFICATIONS

- Course - Google Data Analytics Professional Certificate by coursera
- Course - Python for Data Science, AI & Development by coursera
- Internship, Remote - Machine Learning by Bharat Intern
- Internship, Remote - Web Development by Code Alpha
- Internship - Android Development by NSIC
- Workshop - AI Tools by be10X
- Course - Machine Learning with Python Foundations by Linkedin Learning
- Course - Explore Machine Learning using Python by Infosys Springboard

## EXPERIENCES

- 26.12.2022 - **INTERNSHIP TRAINING ON ANDROID APPLICATION DEVELOPMENT**  
30.12.2022  
NSIC - Technical Services Centre || Chennai, Tamil Nadu
- 01.07.2023 - **VIRTUAL INTERNSHIP PROGRAM IN WEB DEVELOPMENT**  
30.07.2023  
Code Alpha || Online
- 10.07.2023 - **VIRTUAL INTERNSHIP PROGRAM IN MACHINE LEARNING**  
10.07.2023  
Bharat Intern || Online

## LANGUAGES KNOWN

**TAMIL**

Native or Bilingual Proficiency

**ENGLISH**

Native or Bilingual Proficiency

# PROJECTS

## 1. Object Detection Using Machine Learning

### Goal:

- Accurately detect and classify common objects in images using machine learning techniques.

### Objectives:

- **Object Detection:** Use pre-trained models to detect and classify common objects in images.
- **Image Processing:** Enhance detection accuracy using OpenCV and CVLib.
- **Result Visualization:** Display images with annotated bounding boxes and labels, and count specific objects.
- **Practical Application:** Apply detection to real-world scenarios like traffic monitoring and security.

## 2. Hand Gesture Using Machine Learning

### Goal:

- Detect and recognize hand gestures from images or video using machine learning.

### Objectives:

- **Gesture Detection:** Implement hand gesture detection using OpenCV.
- **Image Processing:** Enhance detection through resizing, grayscale conversion, and thresholding.
- **Feature Extraction:** Identify gestures by analyzing contours, convex hulls, and convexity defects.
- **Result Visualization:** Display processed images with annotated gestures and finger counts.

## 3. Iris Flower Classification

### Goal:

- Classify iris flower species using machine learning algorithms based on features from the iris dataset.

### Objectives:

- **Data Exploration:** Load and explore the iris dataset, checking for null values and visualizing distributions.
- **Feature Analysis:** Analyze feature relationships and correlations using statistical plots and heat maps.
- **Model Training:** Train and evaluate multiple classification models, including Logistic Regression, SVM, KNN, Naive Bayes, and Decision Tree.
- **Model Evaluation:** Compare model performance using accuracy and confusion matrix, selecting the best-performing model for classification.

## 4. Sudoku Solver Using Python

### Goal:

- Develop a graphical Sudoku solver using backtracking algorithm in Pygame.

### Objectives:

- **User Interface:** Create an interactive Sudoku board with Pygame for user input.
- **Grid Management:** Implement functionality to update, reset, and visualize the Sudoku grid.
- **Backtracking Algorithm:** Solve the Sudoku puzzle using the backtracking method.
- **Error Handling:** Provide feedback for invalid inputs and display solution status.

## 5. Speech Recognition

### Goal:

- Convert spoken language into text using speech recognition.

### Objectives:

- **Capture Audio:** Record audio from the microphone using speech\_recognition.
- **Process Audio:** Adjust for ambient noise and transcribe the audio to text.
- **Handle Errors:** Manage exceptions for unrecognized speech and service errors.
- **Display Output:** Output the recognized text or error messages to the user.