

# Sucinthar Saravanan

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## ABOUT

Passionate software developer with a dedication to maintaining code integrity and employing inventive problem-solving strategies. Possessing a Bachelor's degree in Computer Science, specializing in full-stack development, data analytics, and machine learning. Aiming to engineer innovative solutions that leave a positive impact. Enthusiastic about contributing to groundbreaking projects through proficient coding.

## EDUCATION

### Vellore Institute of Technology (VIT), India (June, 2019 – May, 2023)

- **Major:** Bachelor of Technology in Computer Science. (CGPA: 7.96/10.0)
- **Coursework:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Object-Oriented Programming, Internet and Web Programming, Cloud Computing, Machine Learning, Data Analytics, Image Processing.

## EXPERIENCE

### Software Developer at Mechonyx Automation Private Limited (Startup) (June, 2023 – Present)

- Contributed to the **development of a fully autonomous, self-driven robot**, leveraging expertise in sensor data analysis.
- Analyzed sensor data to enhance efficiency, **increasing performance from 85% to 94%** through the implementation of certain predefined model.
- Assisted in the development of a robust robotic asset manager and successfully deployed a corresponding web interface.

## TECHINICAL SKILLS

- **Proficient:** Python, MySQL, Flask, Google Workspace, Flutter, VS Code, Jupyter Notebook.
- **Familiar:** HTML, CSS, JavaScript, React JS, Docker, PHP, Git, Java, Azure, AWS, R, MATLAB.

## PERSONAL PROJECTS

### Wi-Fi CSI-Based Human Activity Recognition

- Achieved **98% accuracy** in human activity recognition using Wi-Fi CSI data by implementing a **BiLSTM neural network** for advanced sequence modeling.
- Employed data pre-processing techniques to ensure high-quality input for the deep learning model, contributing significantly to project success.

**Tech Stack:** Deep Neural Networks, Keras, Tensorflow, Python, Scikit-learn

### Deep Facial Recognition App

- Accomplished the **development of a deep facial recognition app** for One-shot Image Recognition using a **Siamese Neural Network**.
- Implemented a secure and efficient alternative to traditional email ID and password authentication, enhancing the authentication processes for various applications.

**Tech Stack:** Tensorflow, Python, Keras, OpenCV, Git, Flutter

### Churn Prediction System

- Developed and deployed a **robust Churn Prediction system** with a Flask app, **achieving high model accuracy**.
- Implemented ensemble learning techniques, Customer Feedback Analysis for effective customer retention strategies.

**Tech Stack:** Python, SQL, Pandas, Scikit-learn, Tensorflow, Flask

## POSITION OF RESPONSIBILITY:

Fraternity of Young Innovators Club VIT Chennai | Outreach

November 2021 – March 2022