

# SUGANTHI GANESAN

Chennai, Tamil Nadu | [suganthig2003@gmail.com](mailto:suganthig2003@gmail.com) | 9500036500 | [Portfolio](#) | [LinkedIn](#)

## Profile Summary

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Enthusiastic and detail-oriented M.Sc. IT graduate with strong expertise in Python, Web Development, and Artificial Intelligence. Skilled in developing real-time AI/ML applications using TensorFlow.js, OpenCV, and machine learning models. Proficient in HTML, CSS, JavaScript, and Python Full Stack development, with a passion for delivering innovative and scalable AI, Data Science, and Web solutions.

## Skills

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**Programming Languages:** Python, JavaScript, HTML, CSS, SQL (Basics)

**Frameworks & Libraries:** TensorFlow, COCO-SSD, OpenCV, NumPy, Pandas

**AI & Machine Learning:** Data Science, Natural Language Processing, Deep Learning, Computer Vision, Generative AI, Prompt Engineering

**Soft Skills:** Problem-Solving, Analytical Thinking, Team Collaboration, Adaptability

## Education

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**Vels University**, M.Sc. Information Technology June 2023– May 2025

CGPA: 8.6/10

**Dr. MGR Janaki College of Arts and Science for Women**, BCA June 2020– May 2023

CGPA: 8.5/10

## Experience

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**AI & Machine Learning Intern - NoviTech R&D Private Ltd** , Remote March 2025 – April 2025

- Developed multiple machine learning applications and AI research projects.
- Gained hands-on experience with AI algorithms, datasets, and model evaluation techniques.
- Learned new ML concepts that were directly applied in academic and personal projects.

## Projects

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**Real time Emotion Detector** [Link](#)

- Developed a real-time facial emotion recognition system using Python and OpenCV, integrated with the facial emotion recognition library for emotion classification on webcam input.

**Tools Used:** Python, OpenCV, facial emotion recognition library

**Real Time Object Detection** [Link](#)

- Built a real-time object detection system using OpenCV and a pre-trained MobileNet-SSD model to identify and classify multiple objects, including people, with live webcam input.

**Tools Used:** Python, OpenCV, NumPy, Imutils, Caffe, MobileNet-SSD

**Credit Card Fraud Detection** [Link](#)

- Built a classifier to detect fraudulent credit card transactions using real-world data.

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

## Certifications

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**Career Essentials in Generative AI** – Microsoft & LinkedIn

**Python for Data Science** – IBM

**Introduction to Artificial Intelligence & Machine Learning** – Infosys