

# SUGANTHI GANESAN

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## PROFILE SUMMARY

Enthusiastic and detail-oriented M.Sc. IT graduate with strong expertise in Python, Artificial Intelligence, Machine Learning, and Data Analytics. Experienced in developing real-time AI/ML applications, predictive models, and data-driven solutions using Python, TensorFlow, and OpenCV. Proficient in data analysis, visualization, and Python Full Stack development, with a passion for delivering innovative, scalable, and efficient solutions in AI, ML, and data science domains.

## SKILLS

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

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

**AI & Machine Learning:** Data Science, NLP, Deep Learning, Computer Vision, Generative AI

**Data Analytics & Visualization:** Power BI, Tableau, Data Analysis, Data Visualization

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## EDUCATION

**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

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## EXPERIENCE

**AI & Machine Learning Intern - NoviTech R&D Private Ltd**, Remote

Mar 2025 – Apr 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.

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## PROJECTS

### Drowsiness Detection System

- Built a real-time drowsiness detection system using facial landmarks and the Eye Aspect Ratio (EAR) method to monitor eye closure and trigger alerts for driver safety. [LINK](#)
- Integrated live webcam input with continuous frame analysis to ensure accurate and efficient detection.

**Tools Used:** Python, OpenCV, Dlib, Imutils, SciPy, Winsound

### Credit Card Fraud Detection

- Performed exploratory data analysis (EDA) and visualizations to understand patterns in credit card transactions and detect fraudulent activities. [LINK](#)
- Built and evaluated a machine learning model to identify fraud in highly imbalanced datasets.

**Tools Used:** Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Imbalanced-learn (SMOTE)

### Real-Time Emotion & Object Detection Web App

- Built a browser-based system for live object and face detection with simulated emotion recognition using webcam input. [LINK](#)

**Tools Used:** HTML, CSS, JavaScript, TensorFlow.js (COCO-SSD, BlazeFace)

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## CERTIFICATIONS

**Python for Data Science – IBM**

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