

# SWEETHA A

## CONTACT

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## SUMMARY

Artificial Intelligence and Data Science Student specializing in Machine Learning and Data Science. Strong foundation in data analysis, model development, and collaborative project work, driven by a passion for innovative tech and continuous learning.

## PROFESSIONAL EXPERIENCE

- AI Intern | Dec 2024 – Jan 2025**  
Tetherfi Technologies PVT.LTD – Mangalore , Karnataka
- Developed a real-time AI chat application with gesture recognition, OCR, speech-to-text, and sentiment analysis using TensorFlow.js and Tesseract.js.
  - Built real-time messaging with Socket.IO and interactive data visualization using Chart.js.
- Data Science Intern | 1<sup>st</sup> June 2024 – 30<sup>th</sup> June 2024**  
Prodigy Intotech – Mumbai , Maharashtra
- Created interactive dashboards and visualizations using Power BI to analyze datasets and uncover trends.
  - Performed data cleaning and exploratory analysis to generate actionable insights for decision-making.
- Data Science Intern | 1<sup>st</sup> June 2024 – 30<sup>th</sup> June 2024**  
Main Flow Services and Technologies – Ghaziabad , Uttar Pradesh
- Built and optimized ML models for Titanic survival, Iris classification, movie ratings, sales forecasting, and credit card fraud detection using Python.
  - Performed data cleaning, feature engineering, class imbalance handling, and conducted EDA with visualizations to uncover insights.
- Data Science Intern | 1<sup>st</sup> June 2024 – 30<sup>th</sup> June 2024**  
CodSoft – Kolkata, West Bengal
- Developed ML models for Titanic survival, Iris classification, movie ratings, sales forecasting, and credit card fraud detection using Python.
  - Performed data cleaning, feature engineering, class imbalance handling, and EDA with visualizations to extract actionable insights.
- Data Science Intern | 1<sup>st</sup> July 2024 – 30<sup>th</sup> July 2024**  
Oasis Infobyte – New Delhi, India
- Built ML models for Iris classification and wine quality prediction using Python and algorithms like XGBoost, Logistic Regression, and SVM.
  - Performed data cleaning, preprocessing, and EDA to extract insights and improve model performance.

## EDUCATION

- Sri Venkateswaraa College of Technology | Sriperumbudur | 2022–2026**  
Bachelor of Technology in Artificial Intelligence and Data Science
- CGPA : 8.9
- Shri Natesan Vidyasala Matric Hr.Sec.School , Chennai | 2020 – 2021**  
HSC – Computer Maths Department
- PERCENTAGE : 94.16
- SSLC
- PERCENTAGE : 96.4

## KEY ACHIEVEMENTS

- Holder of Department Topper Award
- School Second Rank holder in SSLC
- Won 3<sup>rd</sup> place in National Level Symposium at Saveetha Engineering College

## SKILLS

### HARD SKILLS :

Programming : Python , Java

Web Technology : HTML5, CSS3, Javascript

Database : MySQL

Data Visualization : Power BI

Tools : Jupyter Notebook, Canva, Google Colab, GitHub , HuggingFace

### SOFT SKILLS:

Collaboration & Teamwork, Time Management, Leadership

## CERTIFICATIONS

- Build Responsive Real-world websites with HTML and CSS – udemy
- Complete Javascript course – Udemy
- Java – Preplnsta
- Machine Learning – NPTEL

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## PROJECTS

### VULGARITY PREDICTIN IN REAL - TIME CHAT APPLICATION

- Collected and preprocessed chat messages for multi-label toxicity classification.
- Built a deep learning model using Universal Sentence Encoder (TensorFlow) to detect vulgarity and toxicity.
- Developed a real-time chat app that alerts recipients if messages exceed a toxicity threshold of above 40%.
- Integrated AI predictions with Socket.IO for dynamic, interactive messaging.

HuggingFace Repo :[Hugging Face Repository](#)

GitHub repo : [GitHub Repository](#)

### PLANT DISEASE DETECTION USING DEEP LEARNING

- Developed a CNN-based model to detect and classify plant diseases from leaf images using Python and TensorFlow/Keras.
- Implemented a user-friendly interface to upload images and get real-time disease predictions along with confidence scores.

HuggingFace Repo :[Hugging Face Repository](#)

GitHub repo : [GitHub Repository](#)

### REAL-TIME AI CHAT APPLICATION

- Developed a web-based AI chat application integrating gesture recognition, OCR, speech-to-text, and sentiment analysis for interactive user experience.
- Implemented TensorFlow.js, Tesseract.js, and Socket.IO to enable multimodal interactions and real-time messaging.

GitHub Repo : [GitHub Repository](#)

Website URL : <https://sweetha-project.onrender.com/>

### FAMYFOOD - FOOD ORDERING WEBSITE

- Built responsive food ordering website with frontend technologies namely HTML5, CSS3 and JS.

GitHub Repo : [GitHub Repository](#)

Website URL : <https://unique-caramel-c5934b.netlify.app/>

### PIG GAME

- Developed a two-player dice game with turn-based logic, scoring, and win conditions (score  $\geq$  100).
- Implemented interactive controls (Roll, Hold, New Game) with dynamic UI updates and background color change on win.

GitHub Repo :[GitHub Repository](#)

Website URL : <https://dapper-marshmallow-fcb2c8.netlify.app/>