# SENAARAVICHANDRAN A

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## Work Experience

**FLAUNCH |STEM Problem Solver** **Sept 2024 – Oct 2024**
*Generative AI Intern* ***Remote** – Bangalore, India*

- Developed and deployed the **STEM Problem Solver** to provide step-by-step solutions for physics and chemistry problems using AI and deployed through the Streamlit.
- Built the backend using **Python** and **Streamlit**, integrating **LLaMA models** via the Together API for real-time problem-solving.
- Implemented structured prompts and error-handled **API** workflows to ensure reliable and accurate output generation.
- Currently enhancing the platform with subject-specific **customization** and expanded AI capabilities for broader **educationa**l use.

**PRASUNET — Audio Denoising App** **Mar 2025 – Apr 2025**
*Machine Learning Intern* ***Remote** -Chandigarh*

- Built a interactive audio denoising application using **Python**, **Streamlit**, and **Librosa**.
- Integrated Audio **preprocessing, waveform/spectrogram** visualization and **builty-in** filtering.
- Enabled **WAV/MP3/OGG** input support and implemented audio metric evaluation including **SNR** and **RMS** calculations.
- Designed the Frontend using **Custom CSS** and successfully developed the application with **Debugging** and **Fallback** features.

## Education

**Sri Manakula Vinayagar Engineering College** **2023 - 2027**
*Bachelor of Technology (B. Tech) in Information Technology* ***(CGPA of 7.91)*** *Puducherry, India*

## Projects

**Heart Disease Prediction** | *Python, Scikit-learn, Flask, HTML, CSS, JavaScript*

- Developed a Heart Disease Prediction system using a **Gaussian Naive Bayes** model in Python, achieving 80% accuracy.
- Implemented a **Flask** web application for user input and real-time predictions.
- Conducted comprehensive **data visualization** to understand heart disease frequency based on factors like chest pain type, gender, and age distribution.

**Sales Prediction App** | *Streamlit, Python, XG Boost, Optuna, Scikit-learn*

- Developed a modular **Streamlit** app for EDA, cleaning, feature engineering, and modeling.
- Engineered time-series and interaction features for improved **accuracy**.
- Trained **XGBoost** with **Optuna** tuning and cross-validation.
- Enabled model **export**, **evaluation**, and **dynamic** data downloads.

**Personal Portfolio Website** | *HTML, CSS, JavaScript*

- Responsive personal **portfolio website** designed to showcase skills, projects, and experience professionally.
- Developed using **HTML**, **CSS**, and **JavaScript**, featuring smooth animations, theme toggle, and interactive sections.
- Integrated **dynamic** elements like a skills grid, timeline experience, and contact form with real-time validation.
- Optimized with clean **UI**, **fast load times** and fully responsive **layouts**.

## Achievements

- Successfully coordinated a Global-level **hackathon**, managing **team formation**, **problem statements**, and **judging** criteria.
- Actively engaged in **offline** and **virtual hackathons**, contributing to the development of impactful solutions under competitive and time-bound environments.
- Regularly attend **industry-led tech** webinars, **workshops**, and **conferences** of emerging technologies.

## Profile Links

Github

## Technical Skills

**Languages**: C, JavaScript, Html, CSS, Python.

**Technologies/Frameworks/Libraries**: Machine Learning, Data Science & Analysis, Web-Development, API.

**Other**: Generative AI(LLM's), Fine-tuning models.