Yuvaraj S

Email: yuvaraj100424@gmail.com

LinkedIn : (27) Yuvaraj S | LinkedIn

GitHub: Yuva1024

Mobile: +91 7448410867

EDUCATION

Saranathan College of Engineering   Tamil Nadu, India

B.E. Computer Science and Engineering (AI & ML); CGPA: 7.23   *2022 - 2026*

SKILLS SUMMARY

- **Languages**:   Python, SQL, JAVA
- **Frameworks**:   Pandas, NumPy, Scikit-Learn, Matplotlib
- **Tools**:   Power BI, Excel, PowerPoint, Tableau, MySQL, SQLite
- **Platforms**:   PyCharm, Jupyter Notebook, Visual Studio Code, IntelliJ IDEA
- **Soft Skills**:   Excellent communication, Team Collaborative

---

PROJECTS

AI Blog Automation Agent
- Developed an end-to-end AI agent using Google Forms, Gemini API, and Make.com to automate blog content generation.
- Users submit topics via a form, and the agent generates SEO-friendly blog posts using LLMs.
- Automated formatting and delivery of blog content via email or Google Sheets.
- **Integrated publishing capability** to upload generated blogs to platforms like **Blogger**, and other CMS via APIs.

PC Builder Recommendation Agent
- Designed an interactive AI-powered agent to recommend custom PC components based on user needs and budget.
- Collected user inputs via a form and used an LLM to generate personalized build suggestions (CPU, GPU, RAM, etc.).
- Automated the workflow using **Make.com**, connecting form responses to the LLM and generating a clean, formatted PDF output.
- Delivered recommendations via email or cloud storage (Google Drive), ensuring accessibility and user convenience.
- Future version planned using **n8n** and **Flask** for greater customization and backend control.

Emotion Recognition Using Speech
- Built a machine learning model to classify human emotions (e.g., happy, sad, angry) from audio speech inputs.
- Extracted acoustic features like **MFCCs**, **chroma**, and **mel spectrograms** using the **Librosa** library
- Trained multiple classifiers (SVM, Random Forest, MLP) and achieved up to **92% accuracy** in emotion prediction.
- Preprocessed audio data for noise reduction, normalization, and segmentation to improve model performance.
- Demonstrated real-time emotion detection using a simple Python interface with microphone input.

CERTIFICATES

Python Essentials – LinkedIn Learning
- Covered Python fundamentals including data types, control flow, functions, and file handling.
  View Certificate

Java Fundamentals – LinkedIn Learning
- Learned core Java syntax, object-oriented programming, and exception handling.
  View Certificate

ACHIEVEMENTS

- **Built and deployed real-world AI agents** (Blog Generator, PC Builder) using LLMs and Make.com, demonstrating initiative in applied AI.
- Integrated **multi-platform automation workflows** using Make.com, Google Sheets, Forms, and PDFs
- Completed an **Emotion Recognition using Speech** ML project achieving 92% accuracy, combining audio processing and classification.
- Earned verified **LinkedIn Learning certifications** in Python and Java, reinforcing foundational programming knowledge.
- Learning and practicing **context engineering, prompt design**, and backend integration to enhance LLM agent capabilities.