Dhivyadharshini A

Sivakasi | dhivyadharshinia2003@gmail.com | +91 8778107476 | LinkedIn:dhivyadharshini23

EDUCATION

Mepco Schlenk Engineering College,Sivakasi.   2021 – 2025
- B.E.(Hons.), Electronics and Communication Engineering – Specialization in IoT, CGPA: 7.7

K . Kamarajar Matriculation Higher Secondary School, Sivakasi.
- 10th – 83% (2019) | 12th – 86% (2021) | State Board

PROJECTS

Predicting Parkinson's Progression using Machine Learning.   APR 2025
- Built GAET model achieving **98.2% accuracy** on 754 samples- speech dataset; enhanced robustness with GAET-Stack (AdaBoost + XGBoost), on imbalanced test sets. .

Types Of Multipliers using QCA technology.   NOV 2024
- Benchmarked 4 QCA multiplier designs; **Vedic outperformed** with **28% area reduction** and **19% faster throughput** under nano-simulated environments.

Meander Line Antenna.   APR 2024
- Designed compact multiband antenna for **IoT, biomedical**, and **VLSI** systems with high miniaturization efficiency.

Musical Notes Identification.   OCT 2023
- Applied **DSP** (FFT, STFT, autocorrelation)improved the real-time music analysis system's performance by 30% in noisy environments.

Smart IoT-Based System for Real-Time Detection of Drainage Blockages.   MAR 2023
- Designed IoT system using **3 flow sensors** and ThingSpeak API, delivering **90%+ real-time alert accuracy** in simulated drainage blockage scenarios.

Developed Online Voting and Tollgate Management Systems.   NOV 2022
- Coded secure Online Voting and Tollgate systems , implementing with **Aadhar validation for 2-level user auth.**

Accident Prevention System Using Arduino.   JAN 2022
- Engineered **Arduino-based eyewear** to detect driver drowsiness via blink patterns and trigger alarm alerts.

INTERNSHIP

Python Programming Intern, CodeSoft   APR – MAR 2023
- Gained hands-on experience in real-time coding and automation projects.

CORE COMPETENCIES

Programming Languages	- C, Python, SQL.
Software & Tools	- VS Code, Tableau, MATLAB, Tanner EDA, FPGA, Packet Tracer.
Area of Interest	- IoT, VLSI, Digital Circuits.

ACHIEVEMENTS

- **HackerRank Gold Badge in Problem Solving** – 850+ points
- Awarded **Third Place** in RoboRace at Robofest'23, MSEC.
- **SIH 2023 Finalist**–Project selected in Top 10 at college level for innovation and impact.
- **Delivered a tech talk on Cybersecurity**, covering phishing defense and layered security at Sri Ramakrishna Engineering College.

CERTIFICATIONS

Certified in **MS Excel** (Formulas, Functions, & Data Visualization – UniAthena), **Cybersecurity** (Google), **C/C++** (Infosys), **IoT & Industry 4.0** (NPTEL), **Python Computing**(NPTEL), **Database Systems** (IITM Pravartak), and **Professional Readiness** (TCS iON).