MADHAN M

Full Stack JAVA Developer

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TECHNICAL SKILLS

Backend	Core Java, Spring-boot, Rest APIS
Frontend	HTML, CSS, JavaScript, ReactJS, MySQL
Database	My SQL
Tools	Git, GitHub, Visual Studio Code, Spring-boot, Bootstrap

PROJECTS

Red Store - Ecommerce Application

Live Link

RedStore is a fully responsive e-commerce website that offers a seamless online shopping experience. The platform enables users to browse various categories of fashion and accessories, view detailed product information, add items to their cart, and manage their account through a user-friendly login and registration system.

- **Home Page:** Clean, promotional layout with featured products and categories.
- **Product Listings:** Grid view with sorting options and star ratings.
- **Product Details Page:** Includes image gallery, size selection, quantity control, and detailed description.
- **Cart System:** Dynamic cart page with quantity updates, pricing summary, and total calculation.
- **Authentication UI:** Login and registration forms with animated transitions.
- **Fully Responsive:** Optimized for both desktop and mobile devices.
- **Modern UI/UX:** Styled with CSS3, including hover effects, buttons, and gradients.

Technologies Used: HTML, CSS, Bootstrap, JavaScript (Vanilla JS), Font Awesome, Google Fonts, Pure CSS + Media Queries

AI Based Insect Detection (Final Year Project)

Description

This project focuses on detecting the presence of insects using a combination of **Artificial Neural Networks (ANN)**, **sound sensors**, and an **Arduino UNO microcontroller**. The system utilizes an **IR sensor** to detect physical movement or presence of insects, while a **sound sensor** captures the audio patterns emitted by them. The collected data is processed using a trained ANN model to accurately identify and classify insect activity in real-time.

Technologies used

1. **Arduino UNO** – Microcontroller used for interfacing sensors and controlling the system
2. **IR Sensor** – Detects the physical presence or movement of insects
3. **Sound Sensor (Microphone Module)** – Captures the audio signals produced by insects
4. **Artificial Neural Network (ANN)** – Used for analyzing and classifying insect patterns
5. **Power Supply Module** – Provides regulated power to sensors and the Arduino board

MINI PROJECTS

Login & Register Page

Live Link

Developed a responsive **Login and Registration web page** using HTML, CSS, and JavaScript with form validation and basic UI styling. The interface includes user input fields, password validation, and smooth transitions between login and register modes.

JavaScript Quiz App

Live Link

A lightweight, interactive quiz application built using pure JavaScript to test users' knowledge through multiplechoice questions. Designed with simplicity and responsiveness in mind, the app dynamically updates questions and tracks the quiz flow without reloading the page.

EDUCATION

B.E in Electronics and Communication Engineering 2019 – 2023
Francis Xavier Engineering College, Tirunelveli CGPA – 7.81%

HSC 2018-2019
Xavier Hr. Sec. School, Tirunelveli Score - 66%

SSLC 2016-2017
Xavier Hr. Sec. School, Tirunelveli Score - 66%

CERTIFICATION

Full Stack Development Certification

Infycle Technologies 2024

- Gained hands-on experience with web development tools like HTML, CSS, JavaScript, React.js and MySQL.