




# VIJESH PETHURAM

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Passionate software developer eager to contribute innovative solutions and drive technological advancements in a collaborative team environment.

## SKILLS

- **Frontend Development:** Angular, Bootstrap, HTML, CSS
- **Programming Languages:** C, C++, Java, Python, JavaScript
- **Database Management Systems:** MySQL, MongoDB
- **Machine Learning**
- **Object Oriented Programming (OOPS)**

## PROJECTS UNDERTAKEN

### 1. Simulation of Error Detection and Correction Techniques

- Simulated the commonly used Error Detection and Correction mechanisms, like CRC, LRC, VRC, checksum, and Hamming code.
- By simulating and analyzing these mechanisms, we aim to understand their effectiveness, performance, and suitability for specific applications.
- Developed a GUI based Simulation using Java and Java Swings Library.

### 2. Hospital Management System

- Developed a comprehensive Hospital Management System using Java and MySQL.
- Implemented functionalities such as patient registration, appointment scheduling, medical record management, and billing.
- Designed and optimized the database schema for efficient storage and retrieval of healthcare data.

### 3. Student Career Prediction System with Chatbot

- The AI-Based Career Counselling system employs Machine learning to assist School students with informed career choices.
- Developed the frontend using Streamlit Framework (Python).
- Trained a Machine Learning model to predict the most suitable career of the student and developed a Chatbot to find out his interests.

### 4. Linux Shell Clone Development

- Developed a Linux Shell from scratch using C and developed a Shell Parser to understand the Command that user types in and perform that specific operation.
- Implemented the Linux commands like copy, move, cd, grep, ls, etc., without using any built-in functions and also implemented operators like Pipe, etc.
- Implemented additional features such as User friendliness and Error handling.

## EDUCATION

### **B.Tech. Information Technology | Mepco Schlenk Engineering College, Sivakasi**

2021 - Present

CGPA: 8.37

### **HSC & SSLC | St. Thomas Mat. Hr. Sec. School, Thoothukudi**

2019 - 2021

Percentage: HSC: 89% | SSLC: 90%

## HONORS AND AWARDS

### **MEPCO SCHOLARSHIP AWARD**

For Academic Excellence | Year: 2022 - 2024

## CERTIFICATIONS

- **C, C++, Java, Python with Data Science**  
Issuer: COGTIS Technologies Pvt. Ltd.
- **Problem Solving through Programming in C**  
Issuer: NPTEL
- **Fundamentals of Digital Marketing**  
Issuer: Google
- **Deep Learning**  
Issuer: NPTEL

## EXTRA-CURRICULAR EXPERIENCE

### **EVENT MANAGEMENT HEAD**

Consumer Club (MSEC)

Oct 2023 – Present

## OTHER PARTICIPATIONS

- Member of the Software Team to develop a **Registration website for "Gyan Mitra 23"**, an Inter College Technical Symposium conducted by our college, using React Framework. More than 1000 users registered and made payments through our website.
- Participated in the Internal Hackathon for **Smart India Hackathon 2023** and shortlisted to submit the project "Student Career Prediction System with Chatbot Integration" in SIH'23.
- Participated in the **ACIC MIF Ideathon**.
- Editorial Member of **Campus Trails'24** Magazine, an **Annual magazine** released by our college.