TIVYATHARSHINI J

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EDUCATION

Sri Eshwar College of Engineering	**B.E-CSE(AI-ML)**	**CGPA:8.14**	**2023 - 2027**
Devangar Girls.Hr.Sec School	**HSC**	**91.3%**	**2020 – 2022**
Devangar Girls.Hr.Sec School	**SSLC**	**81.2%**	**2019 - 2020**

INTERNSHIPS

G-Zoft Tech Solutions – MERN   2025

Built dynamic and scalable web applications using the MERN stack, with a strong emphasis on responsive UI/UX design and real-time functionality. Gained hands-on experience in full-stack development by working on live projects, integrating RESTful APIs, AI-powered insights, and deploying applications on cloud platforms.

Modern Full-Stack Development Internship   2025

Worked on real-time, hands-on projects using **HTML, CSS, JavaScript, Next.js**, and **MongoDB**. Gained practical experience in **API fetching**, **dynamic and API routing**, and full-stack integration with a focus on responsive design and performance.

PROJECTS

Lingua Lens   GitHub   2025

Description: Developed AI-powered smart glasses using ESP32-WROOM-32 and SH1106 OLED to display real-time speech transcription and multilingual translation. Integrated pretrained models (Faster Whisper & SeamlessM4T) via lightweight APIs. Built companion mobile app (Flutter) for live updates and a web app to access live/recorded sessions.

Tools and Technologies:Languages & Frameworks: Python, Flutter, JavaScript

Hardware & Models: ESP32-WROOM-32, SH1106 OLED, Faster Whisper, SeamlessM4T

Platforms: Mobile App, Web App, Embedded System

AI Powered Quiz and Flashcard Generation   2025

Description: Built a full-stack web app using **React, Node.js, and Firebase** to generate AI-based quizzes and flashcards based on user-selected topics and difficulty levels. Integrated **AI APIs**, **real-time scoring**, **interactive feedback**, and **performance charts**. Implemented **secure authentication** and **CRUD operations** with Firestore.

Languages & Frameworks: JavaScript, React, Node.js , **Backend & Database:** Firebase (Authentication, Firestore)

APIs & Libraries: Gemini AI API, Chart.js, Express.js

MCP Server – Tool-Based Context Agent   GitHub   2025

Built and hosted custom MCP servers (MCP-WIKIDATA and MCP-PORTAINER) using Python and FastMCP to facilitate tool-based agent communication. Integrated tools for querying **Wikidata** and managing **Portainer** via APIs. Enabled local deployment with modular architecture, JSON-based context handling, and Postman testing for validation.

Technologies: Python, FastMCP, REST APIs, Wikidata API, Portainer API, Postman, JSON

TECHNICAL SKILLS

Languages: C | C++ | Python | Java

Technologies/Frameworks: HTML5 | CSS | React | Node.Js | JavaScript | Next Js | RestAPIs

Tools: VScode | JupyterNotebook | Git | Github | Canva | PowerPoint | Postman | Docker

Cloud/Databases: Mysql | MongoDB

Data Science & Analysis Libraries - Pandas | NumPy

Data Visualization - Matplotlib

Core Concepts: Data Structures & Algorithms | Artificial Intelligence & Machine Learning | Object Oriented Programming API Integration

ACHIEVEMENTS

Secured **ThirdPlace** in Project Expo at Sri Eshwar College of Engineering Department level	**2025**
Secured **FirstPlace** in **24 Hours Hackathon** at K Ramakrishnan College of Engineering	**2025**
Secured **FirstPlace** with **Internship** in **24 Hours Hackathon** – KPR Institute of Technology	**2025**
Secured **Second Place** in **30Hours KEC Hackathon** conducted by Kongu Engineering College	**2025**

CODING PLATFORMS

LEETCODE: 1700+ Rating, Solved **150+** Problems

HACKER RANK: C, C++, java (Bronze level), Python (Silver), SQL(Bronze level)

SkillRack: , 550+ Programs Solved ,Completed Java Basics – Handson , SQL – Basics (Standard)

CERTIFICATIONS

Fundamentals of Generative AI – GUVI	**2024**
Completed Java programming Beginner-to-Master - UDEMY	**2024**
Completed Matplotlib from Great Learning – GreatLearning	**2024**
Completed Pandas course from Kaggle – kaggle	**2024**
Completed Data Structures & Algorithms using C and C++ from Udemy - UDEMY	**2024**