

VIGNESH D

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PROFILE SUMMARY

Java and MERN stack developer with a strong foundation in both front-end and back-end technologies. Demonstrates a strong ability to collaborate effectively within teams, manage multiple tasks, and communicate complex technical concepts clearly. Eager to leverage programming expertise and engineering knowledge to contribute to cutting-edge projects.

SKILLS

- **Programming Languages:** Java, JavaScript, Python
- **Web Development:** React, Node.js, Express, HTML, CSS
- **Databases:** MySQL, MongoDB
- **Soft Skills :** Collaborative, Problem-solving, Analytical Skills, Communication.

EDUCATION

Bachelor of Engineering (Mechanical)

June 2020 -May 2024

Government College of Engineering,Salem.

CGPA 7.9 /10

Relevant coursework in programming, Data structures, and Algorithms (DSA).

PROJECTS

Commercial Robotic Cleaner for Higher Surface

Technologies Used : (Arduino, Python, Sensors (Ultrasonic, Infrared), Machine Learning)

- Autonomous Robotics : Developed a robotic cleaner for autonomous operation.
- Machine Learning Algorithms: Implemented ML algorithms for obstacle detection and path optimization.
- Sensor Integration : Utilized ultrasonic and infrared sensors to enhance performance.

Voice Assistant Development Project

Technologies Used : (Python, SpeechRecognition library, Natural Language Toolkit, Text-to-Speech , Flask)

- Speech Recognition Technology : Created a voice assistant with speech recognition capabilities.
- Natural Language Processing (NLP)*: Applied NLP techniques using NLTK for understanding user commands.
- Web Development*: Integrated Flask and Text-to-Speech API for a robust web-based application.

Food App

Technologies Used : (React, Redux, Node.js, Express, MongoDB, Socket.io)

- MERN Stack Development : Developed a restaurant management app using MERN technologies.
- Real-time Updates : Integrated Socket.io for live updates and real-time data synchronization.
- API Integration : Created APIs for efficient frontend-backend communication and user interaction.

CERTIFICATIONS

- Java code Programming course from Livewire Training Institutes, Salem (2023-2024).
- Complete Python Bootcamp from Zero to Hero in Python - Udemy.
- Smart & Advanced Manufacturing Course from Naan Mudhalvan.
- Certification in Full Stack Development - Udemy.