Vijay K

+91 9360776120 | kvijay7639@gmail.com | LinkedIn

SUMMARY

Full-Stack Developer skilled in **MERN stack** with a passion for **AI/ML** technologies. Experienced in building responsive and user-friendly web and mobile applications. Continuously exploring new technologies through hands-on projects and collaborative environments. Dedicated to delivering high-quality, innovative solutions with a focus on user-centered design.

SKILLS

- Front End : Flutter, HTML, CSS, React
- Languages : Dart, Python, JavaScript
- Design Tools : Figma
- Backend: MongoDB, Firebase, Node,Express

EDUCATION

Rajalakshmi Institute of Technology   **Chennai,Tamil Nadu**
Bachelor of Engineering,Computer Science and Engineering   2022-2026

PROJECTS

RIT College Library Management System

Technologies: HTML, CSS, JavaScript, MongoDB, Python
- Developed a system to track real-time book availability and student entries/exits.
- Implemented real-time data synchronization for up-to-date information.

Smart Traffic Management System

Technologies: YOLO, SUMO, TraCi, Tensorflow
- Developed an AI powered system to optimize urban traffic flow by dynamically adjusting traffic light timings based on real-time vehicle detection.
- Integrated YOLO for object detection and SUMO for traffic simulation.

LLM-Driven Vehicle Design Optimization System

Technologies: GPT-2, YOLO Model, Pretrained LLM Models
- Fine-tuned an LLM model using GPT-2 for design optimization and YOLO for object detection.
- Designed a user-friendly interface for generating data-driven suggestions to improve car aesthetics and functionality.

CERTIFICATIONS

- **Google** Introduction to Large Language Models
- **Microsoft** Fundamentals of Generative AI
- AI for India 2.0 **GUVI Geek Networks**
- Introduction to MongoDB

INTELLECTUAL PROPERTY

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- **23099/2024-CO/SW** Library Automation Software – Filed

LANGUAGES

- English
- Tamil