

VIGNESH M

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SUMMARY

Passionate and detail-oriented developer with a strong interest in web development and full-stack app development, with a strong focus on data visualization and AI-powered solutions.

EDUCATION

B.Tech in Computer Science and Engineering Kalasalingam Academy of Research and Education, Tamil Nadu <i>Relevant Coursework:</i> Data Structures & Algorithms, Operating Systems, DBMS, Java, Machine Learning	<i>Expected 2026</i> CGPA: 7.36
XII (Higher Secondary) – State Board, Tamil Nadu	78.6%
X (Secondary School) – State Board, Tamil Nadu	62.7%

TECHNICAL SKILLS

- **Languages:** Python, C#, Java, JavaScript, HTML5, CSS3, React Native, SQL
 - **Frameworks & Tools:** .NET, Node.js, Express.js, Next.js, React.js, RESTful APIs, Django, Power BI, Microsoft Excel, ETL basics
 - **Databases & Cloud:** MongoDB, MySQL, Firebase (Auth, Firestore)
 - **Version Control:** Git, GitHub
 - **Platforms:** VS Code
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MAJOR PROJECTS

Campus Food Ordering System	<i>Python, Flask, MySQL, HTML, CSS</i>
○ Developed a full-stack campus food ordering system using Python (Flask), MySQL, and HTML/CSS with animated UI for seamless user experience.	
○ Implemented user authentication, multi-shop menus, and cart functionality, enabling real-time interaction for students and canteen staff.	

Course Registration System	<i>MERN Stack, Render.com</i>
○ Developed a full-stack course registration portal with authentication and admin approval flow.	
○ Enabled instant notifications via email and SMS using SMTP and third-party SMS APIs.	

ONGOING PROJECTS

Money Management App

React Native, Django

- Building a personal finance tracker with income/expense logging, secure user authentication, and Django REST APIs.
 - Provides real-time insights through a clean, intuitive mobile interface.
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RESEARCH & PUBLICATIONS

- **Intelligent Traffic Signal Optimization for Emergency Vehicles Using YOLOv8 and Stacked Machine Learning in Indian Smart Cities**
K. Maharajan, **Vignesh M**, Lakshmi Narasimman P, Arunkumar S, Harish Balaji R
Presented at the 2025 International Conference on Automation, 5th Asian Conference on Innovation in Technology (ASIANCON), IEEE, 2025.
 - **Retail Intelligence System for Indian SMEs: A Cross-Platform Application with Stacked ML-Based Sales Forecasting and Inventory Optimization using Prophet, ARIMA, and LSTM**
K. Maharajan, **Vignesh M**, Arunkumar S, Harish Balaji R, Dhanush Krishna B
Presented at the 2025 International Conference on Automation, 3rd International Intelligent Cyber Physical System and Internet of Things (ICOICCI), IEEE, 2025.
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CERTIFICATIONS

- **Introduction to MS Excel** – Microsoft (Simpli Learn)
 - **JavaScript for Beginners** – Simpli Learn
 - **NodeJS - The Complete Guide(MVC, REST APIs, GraphQL, Deno** – Udemy
 - **Data Visualisation: Empowering Business with Effective Insights** –TATA (Forage)
 - **Data Analytics Job Simulation** – Deloitte
 - **Power BI Workshop** – OfficeMaster
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ACHIEVEMENTS

- Won 1st Prize for presenting the project “*Venue Vista: Your One-Stop Online Venue Booking and Event Planning Platform*” at a university-level competition.
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