

# 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.

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## EDUCATION

**B.Tech in Computer Science and Engineering** *Expected 2026*  
Kalasalingam Academy of Research and Education, Tamil Nadu **CGPA: 7.36**  
*Relevant Coursework:* Data Structures & Algorithms, Operating Systems, DBMS, Java, Machine Learning

**XII (Higher Secondary)** – State Board, Tamil Nadu **78.6%**

**X (Secondary School)** – State Board, Tamil Nadu **62.7%**

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## 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** *Python, Flask, MySQL, HTML, CSS*

- 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** *MERN Stack, Render.com*

- 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.
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## ONGOING PROJECTS

### Money Management App

- 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**  
K. Maharajan, **Vignesh M**, Lakshmi Narasimman P, Arunkumar S, Harish Balaji R  
Presented at the 2025 5th Asian Conference on Innovation in Technology (ASIANCON).
  - **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 (ICOICI), 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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