

# Karthikeyan K

Associate Data Analyst | Full Stack Developer | AI Enthusiast

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## Education

<b>B.Tech in Information Technology</b>	2021–2025
DMI College of Engineering	
<b>HSC (78%)</b>	2021
Singaram Pillai Higher Secondary School	
<b>SSLC</b>	2019
Singaram Pillai Higher Secondary School	

## Technical Skills

**Programming:** Python, JavaScript, TypeScript  
**Frontend:** React, Next.js, Redux, HTML5, CSS3, Tailwind CSS, Framer Motion  
**Backend:** Node.js, Express.js, RESTful API Development, Firebase (Authentication, Firestore)  
**Artificial Intelligence & Data:** Generative AI Systems, Large Language Model Integration, Prompt Engineering, Retrieval-Augmented Generation (RAG) Fundamentals, Streamlit, Exploratory Data Analysis  
**Databases:** MongoDB, Firestore  
**DevOps & Deployment:** Vercel, CI/CD Pipelines (GitHub Actions), Environment Configuration, Production Builds  
**Software Engineering:** Modular Architecture, API Integration, Authentication Flows, Error Handling, Performance Optimisation  
**Tools:** Git, GitHub, VS Code, Postman

## Key Projects

### AI Consulting System

- Multi-domain AI assistants for Education, Healthcare, Finance, and Retail with context-aware responses.
- Designed modular backend services with secure authentication and real-time data persistence.
- Deployed production-ready web application with responsive UI and animation-driven user experience.

### NutriFY AI

- AI-powered nutrition analysis system leveraging computer vision for food recognition.
- Built an interactive data dashboard for real-time calorie and macronutrient insights.
- Implemented structured input pipelines to support meal logging and dietary recommendations.

### AI Job Application Assistant

- Automated resume optimisation and context-aware cover letter generation using LLM-based pipelines.
- Developed a ranking engine to match job roles based on skill similarity and relevance scoring.
- Improved user productivity by streamlining repetitive application workflows.

## Professional Experience

**Associate Data Analyst** Jun 2025 – Present  
*Zinnov*

- Delivered data-driven insights through dashboards and analytical reports for enterprise clients.
- Designed automation workflows to support data preparation, enrichment, and reporting pipelines.
- Collaborated with stakeholders to translate business problems into analytical solutions.

**Full Stack Developer Intern** Jun 2024 – Jul 2024  
*Octanet*

- Built and deployed a React + TypeScript web application with authentication and CRUD features.
- Implemented automated deployments and version control best practices.
- Enhanced application reliability through structured debugging and testing.

**Intern (AI, Blockchain, IoT, Full Stack)** May 2024 – Jul 2024

*NoviTech R&D*

- Developed proof-of-concept applications across AI, IoT, and full-stack domains.
- Assisted in building scalable service components and reusable frontend modules.
- Documented implementation workflows and technical learnings for internal use.

## Additional Projects

- Weather Dashboard** – Real-time weather application using OpenWeatherMap API with dynamic UI updates.
- Todo Application** – Task management system with state management and responsive design.
- Chess Game** – Browser-based chess with AI opponent and game state logic.
- Snake Game** – Interactive canvas-based game with smooth animations and scoring logic.

## Certifications & Strengths

- Google Cloud – Introduction to Generative AI
- IBM SkillsBuild – Cybersecurity Fundamentals
- Hugging Face Transformers Workshop
- AI-Driven Innovations Webinar
- Strong problem-solving, debugging, and system design skills with experience building and deploying full-stack AI-driven applications.