KARTHIGA RAJESH

I am Karthiga Rajesh, a responsible and motivated student eager to apply my education in the workplace. I possess excellent technical abilities with software and applications, enabling me to tackle challenging tasks effectively. My strong time management skills allow me to handle multiple projects efficiently and meet deadlines consistently. I am passionate about continuously learning and growing in my field, and I am excited to bring my skills and dedication to new opportunities.

SKILLS

- Web Development
- Mobile App Development
- Java
- Python
- MERN Stack (Basic)
- Teamwork
- Project Management
- C Programming (Basic)

LANGUAGE

- English
- Tamil

CONTACT

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🐙 https://github.com/karthigarajesh

EDUCATION HISTORY

BE Computer Science and Engineering
Rajalakshmi Engineering College

2022-2026   CGPA : 8.26

Higher Secondary
Mount Park Higher Secondary School

2022   Score : 93.33%

Secondary Education
Sri Vidya Mandir Higher Secondary School

2020   Score : 81.2%

WORK EXPERIENCE

Android App Development Intern
May 2024 - July 2024

- *Mastered Java/Kotlin programming*
- *Understood core Android components like Activities, Services, and Broadcast Receivers*
- *Designed user interfaces using XML Developed robust, user-friendly mobile applications*
- *Worked on practical projects to enhance skills*

Advanced ML Using Python Intern
Feb 2024 - April 2024

- *Learned complex algorithms, data preprocessing techniques, and model evaluation metrics*
- *Gained proficiency with libraries like TensorFlow, Keras, and scikit-learn*
- *Built and deployed sophisticated machine learning models*
- *Engaged in practical projects for hands-on experience in advanced machine learning*

Android App Development Intern
Jan 2024 - Feb 2024

- *Built a weather app for real-time updates*
- *Developed a task management app with reminders*
- *Gained hands-on experience in Java/Kotlin, UI design, and API integration*
- *Enhanced skills in debugging, testing, and deploying Android applications*
- *Developed proficiency in using Android Studio, working with databases, and implementing user authentication*

Fullstack Web Development
June 2023 - Aug 2023

- *Designed and developed user-friendly websites using HTML, CSS, and Bootstrap Built and maintained responsive layouts to ensure optimal performance across various devices*
- *Implemented interactive features and dynamic content using JavaScript and jQuery*
- *Enhanced skills in deploying web applications and managing hosting environments*

PROJECTS

TerraDefender - Military IPB System
- *Developed Military Intelligence Preparation of the Battlefield (IPB) module as part of TerraDefender to support strategic military planning.*
- *Implemented machine learning algorithms for terrain classification, building layout extraction, and key feature identification from aerial and satellite imagery.*
- *Enabled terrain analysis and infrastructure mapping for enhanced situational awareness and operational decision-making.*

Elevator Maintenance Predictor
- *Developed an ML-powered predictive maintenance system for elevators using sensor data, usage patterns, and historical maintenance logs.*
- *Implemented advanced machine learning algorithms to forecast potential issues and provide early warnings to prevent breakdowns.*
- *Enabled proactive maintenance scheduling, reducing downtime and operational costs.*
- *Improved elevator safety and reliability through real-time monitoring and intelligent alert generation.*
- *Designed for scalable deployment across residential, commercial, and industrial environments to extend equipment lifespan and optimize performance.*

Analyst Recommendation System
- *Developed an AI-powered recommendation system to match analysts with tasks based on expertise, past performance, and situational context.*
- *Utilized machine learning algorithms to analyze multi-instance data and recommend the most suitable analyst for each project.*
- *Improved resource allocation and decision-making by automating the analyst selection process.*
- *Enhanced project outcomes and team efficiency by ensuring optimal analyst-task alignment.*
- *Designed the system to be scalable and adaptable for integration into various organizational workflows and decision-support tools.*

Trash to Treasure
- *Built an aesthetically designed web platform to promote sustainable living by facilitating the donation and resale of reusable waste items.*
- *Developed using the MERN stack (MongoDB, Express.js, React.js, Node.js) with dedicated login portals and dashboards for buyers and sellers.*
- *Integrated features such as video backgrounds, pastel-themed UI, and dynamic content sections to deliver an engaging user experience.*
- *Enabled users to list, browse, and acquire items like used clothing, e-waste, and household goods for upcycling and reuse.*
- *Promoted circular economy practices by reducing landfill waste and encouraging environmental responsibility through repurposing initiatives.*

CERTIFICATIONS

Recommendation Systems on Google Cloud
https://coursera.org/share/fc6a05de15bf837719e0b3aad6e327f5https://coursera.org/share/fc6a05de15bf837719e0b3aad6e327f5

Springboard AI Primer Certification
https://drive.google.com/file/d/1v5bKbuUrdV3cXw2arHuKMfsvF94tFgtg/view?usp=sharing

Springboard Artificial Intelligence Foundation
https://drive.google.com/file/d/17AsNZdMdGPAM_GOSpX0FC5bjIynsvEtJ/view?usp=sharing