SARATH KUMAR S

Katpadi-Vellore

📞 +91 6369034053 ✉ sarathkumar2362000@gmail.com 🔗 linkedin.com/in/sa ⭘ github.com/Sarathk

Education

Vellore Institute of Technology, Vellore   Aug. 2023 – May. 2025
Master of Technology in Computer Science and Engineering – CGPA : 8.46   *Vellore, Tamil Nadu*

Kingston Engineering College, Vellore   Sep. 2018 – May. 2022
Bachelor of Engineering in Computer Science - CGPA : 8.26   *Vellore, Tamil Nadu*

Technical Skills

Languages: Python-(Numpy,Pandas,Scikit-Learn), Java, C, SQL.
Developer Tools: VS Code, Eclipse, Android Studio, Atom, Tableau, Power BI.
Technologies/Frameworks: Linux,Tensorflow, GitHub, WordPress
Other Skills: Problem Solving, Software Development, Cooperative Teamwork.

Experience

UNIQ Technologies   April. 2022
Software Development Intern   *Chennai, Tamil Nadu*

- Developed and tested five core modules for an Android application under simulated real-world conditions, ensuring seamless integration and improving application stability by 15%.
- Standardized Android internship program timeline across tech companies, startups, and educational institutions, establishing a consistent 12-week duration focused on core Android development skills and hands-on project experience.

Projects

Hybrid Ensemble Learning for Machine Failure Prediction Using Sensor Data   April. 2025

- Mastered predictive maintenance tools and machine learning models through rigorous sensor data analysis, delivering a 20% improvement in fault detection accuracy and decreasing machine failures by 12% after implementation.
- Improved fault detection accuracy by 15% leveraging sensor data analysis on 200+ machines, resulting in a 10% reduction in unscheduled maintenance and downtime, directly impacting operational efficiency.

Preventing Denial of Service Attack in Cloud Computing and Machine Learning   Nov. 2024

- Configured intrusion detection and prevention systems (IDPS) to automatically block simulated DDoS attack traffic, maintaining server uptime and ensuring a consistent user experience with sub-second response times.
- Developed a real-time anomaly detection system using K-means clustering, achieving a 95% accuracy rate in identifying and mitigating DDoS attacks, thus safeguarding data integrity and preventing service unavailability.

A Deep learning Approach for enhanced detection of plant disease using Ensemble Methods   May. 2024

- Developed a machine learning model to identify common plant diseases, by annotating 200+ images daily, ensuring data quality and contributing to ongoing model refinement and improvement.
- Integrated five distinct deep learning models for plant disease detection using stacking ensemble techniques, achieving a 15% improvement in F1-score and a 10% reduction in false positives..

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet Technology
- Objected oriented
- Computer Networks

Courses Completed

- Completed Machine Learning course on Great Learning.
- Completed"Introduction to Web Development with HTML,CSS,and JavaScript"course on Great Learning.
- Completed Java Programming course on Great Learning.