C Madhu Sudhan

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EDUCATION

RAYALASEEMA UNIVERSITY COLLEGE OF ENGINEERING
Bachelor of Electronics and Communication; GPA: 7.5 August 2020 – May 2024

SKILLS SUMMARY

- **Languages:** JAVA, SQL, HTML, CSS, JavaScript
- **Tools and Technologies:** MySQL, GitHub, Git
- **Libraries and Frameworks:** Spring Boot (Fundamentals)
- **Soft skills:** Attention to Detail, Strong verbal and written communication, Team-oriented

EXPERIENCE

LTIMindtree | INTERN

- Completed specialized training in automated boundary detection, improving data processing efficiency and achieving high accuracy in boundary detection results.
- Worked closely with the team to collect and manage a large set of spatially labelled data points, optimizing dataset division for model training and preparing data for development.
- Collaborated with the team to integrate trained models onto new spatial imagery, using version control systems to enhance deployment processes and foster better collaboration.
- Utilized ArcGIS tools to analyse and process spatial data, contributing to the refinement of boundary detection and improving overall data management workflows.

PROJECTS

JSON PARSER APPLICATION

- Developed a JSON parser application in Java, enabling efficient parsing and validation of JSON files.
- Implemented core features such as a tokenizer, parser, and error handling to process and validate JSON data structures.
- Exposed JSON processing functionalities to retrieve parsed results or error messages.
- Created both valid and invalid JSON files to test and ensure the accuracy and robustness of the JSON parsing and validation processes.

BATTERY MANAGEMENT SYSTEM | BMS FOR ANALYSING ACCURATE REAL TIME BATTERY CONDITION

- Utilized lithium-ion battery datasets to develop accurate State of Charge (SoC) estimations, preventing system interruptions and avoiding battery overcharge or discharge.
- Achieved precise SoC evaluations, enhancing battery longevity and ensuring optimal vehicle performance and safety.
- Integrated real-time data analysis to dynamically adjust charging protocols, improving energy consumption and optimizing charging efficiency.
- Applied continuous learning algorithms to predict battery health, enabling proactive maintenance and extending the overall battery lifespan.

CERTIFICATIONS

NXTWAVE - Web development and design using HTML, CSS, JavaScript: Completion (Jan 2022 – Apr 2022)
LINKEDIN LEARNING – Agile Project Management: Certificate of Completion (May 2024 – Jun 2024)

ROLES AND RESPONSIBILITIES

- Prominent leader and key contributor in the IoT lab.
- Anchored college events, coordinating with teams for seamless execution.