NAVEEN RAJAN

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Education

Sri Ramakrishna Engineering College — Coimbatore
Bachelor of Engineering in Electronics and Communication Engineering — *Nov. 2021 – May 2025*

Experience

Undergraduate Research Assistant — June 2024
Robomiracle Technologies — *Coimbatore*

- Developed a scalable inventory management system using React.js, Node.js, and MySQL to streamline inventory tracking and management processes.
- Engineered a responsive user interface with React.js, allowing seamless interaction and data visualization for inventory items.
- Implemented backend functionalities in Node.js, including RESTful APIs for efficient data retrieval and manipulation.
- Designed and optimized a MySQL database schema to store and manage inventory data securely and efficiently.

Information Technology Support — Jun 2023
Salzer Electronics Limited — *Coimbatore*

- Engineered an automated testing system for electric switches at Salzer Electronics Limited to enhance quality assurance processes.
- Developed testing protocols and automation scripts to ensure consistent and thorough testing of electric switches and cables.
- Implemented data logging mechanisms to record test results and performance metrics for analysis and quality control purposes.

Projects

Student Dropout Analysis For School Education | *PHP,MySQL,HTML* — June 2023 – May 2024

- Analyzing dropout rates across various categories such as school, area, gender, caste and age/standard provides crucial insights for targeted policy formulation.
- Addressing economic barriers in impoverished areas, promoting gender equality in education, tackling caste-based discrimination, and providing support tailored to different age groups or standards can effectively reduce dropout rates and ensure the right to education for all
- Understanding the specific factors contributing to dropout rates in each category, the government can design focused interventions.

Car Damage Detection System | *Python* — June 2022 – May 2023

- Car damage detection system using AI: Developed an AI based system to accurately detect and assess car damages from images.
- Implemented machine learning algorithms and computer vision techniques to analyze and classify different types of car damage.
- The project involved data collection, model training and performance evaluation, resulting in a userfriendly application that can assist in insurance claims and vehicle assessments.

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: React, Node.js
Developer Tools: Git, Google Cloud Platform, Google Colab, VS Code, Visual Studio, Xampp, MySQL workplace
Libraries: pandas, NumPy, Matplotlib

Certifications

- Business English Certificate Preliminary
- Backend Web Development
- Matlab Onramp Certificate
- Participated in SIH Hackathon [Pre-Final Round] 2023.