# KADIYALA RAJA RAM

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## OBJECTIVE

Aspiring software engineer with strong backend development skills, eager to contribute to impactful software solutions and solve real-world problems. Motivated to take on dynamic and challenging roles that driven organizational growth while continually enhancing technical expertise.

## EDUCATION

**SASTRA DEEMED UNIVERSITY**                                                                                    Thanjavur, Tamil Nadu
Bachelor of Technology                                                                                                          2020 - 2024
Electrical and Electronics Engineering                                                                                     CGPA:8.01

## PROJECTS

### AIR QUALITY INDEX MONITORING SYSTEM USING MACHINE LEARNING

- Developed a real-time air quality monitoring web application using ESP32 sensors and Machine Learning for accurate predictions.
- Built an interactive interface to display air quality data and tips, enhancing user engagement.
- Managed data efficiently using Firebase as the database.
- **Tech Stacks**: Arduino IDE, Firebase, HTML, CSS, JavaScript, Python, PyCharm and Machine Learning.

### MACHINE LEARNING FOR CONDITION MONITORING IN POWER ELECTRONIC CONVERTERS

- Monitoring the performance of each component in power electronic converters over time using ML Algorithms to classify their conditions as critical, degrading, or operating.
- Manually validate the output to determine the most efficient ML Algorithm for future use. Conclude the system's condition based on the analysis.
- **Tech Stacks:** Python, TensorFlow, scikit-learn, Pandas, NumPy, MATLAB, Jupyter Notebook.

### HOS ANDROID APPLICATION

- Developed and launched the HOS Android App, now live on the Play Store with over 2k+ downloads
- The app secures user access via college email IDs and allows users to download PDFs to private local storage.
- Built using Java and XML for the front end, Firebase for the backend, and developed in Android Studio.
- **Teck Stacks:** Java, XML, Firebase, Android Studio.

## ACCOMPLISHMENTS

- **Facebook Hacker Cup 2024**
  - Achieved a rank of **476 out of 100,000 participants** in the qualification round and advanced to Round 1 of the global programming competition.
- **CodeChef SnackDown 2022**
  - Advanced for **Round 2** in a highly competitive global programming contest.

## ADDITIONAL

**Technical Skills**:
    **Front End:** HTML, CSS, jQuery, Bootstrap, JavaScript.
    **Back End:** Java, Spring, Spring Boot.
**Database:** MySQL and Oracle SQL.
**Operating Systems:** MacOS and Linux.
**Developer Tools:** Visual Studio Code, Eclipse, IntelliJ, MATLAB, Git.
**Familiar skills:** Machine Learning.
**Soft Skills**: Effective Communication, Critical Thinking, Quick Learner, Teamwork, Problem Solving.