MACHI RAJU HARI RAM

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PROFILE

Detail-oriented and analytical professional with strong problem-solving skills and a solid foundation in algorithms, data structures, and system design. Experienced in writing high-quality, well-documented code, evaluating AI model responses, and drawing insights from data. Effective communicator with a keen eye for software quality and performance.

SKILLS

- ❖ **Languages:** Python, Java, C#, JavaScript, PHP, SQL
- ❖ **Frameworks/Libraries:** Pandas, NumPy, Scikit – Learn, Matplotlib, Vue.js, React.js, SCSS, Bootstrap
- ❖ **Tools:** Power BI, Excel, Power point, MySQL, SQLite, MongoDB
- ❖ **Course Work:** Data Structure and Algorithms, OOP's, Operating Systems, DBMS, System Design, Computer Networks
- ❖ **Platforms:** PyCharm, Jupiter Notebook, VS Code, Git, Git Hub
- ❖ **Soft skills:** Rapport Building, Strong Stakeholder management

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PROJECTS

1. MULTIPLE ARTIFACT DETECTION BASED ON ADAPTIVE SCALP REGION SELECTION AND CLASSIFIER FUSION

Technologies included: Machine Learning Algorithms (SVM, RF, NB, voting classifier), Python, MNE – Python, NumPy, Pandas, Scikit – Learn, Matplotlib/Seaborn, Digital Signal Processing.   **Oct 2024 - Apr 2025**

- ➢ Designed and implemented an ensemble machine learning model for EEG artifact detection using Support Vector Machine (SVM), Random Forest (RF), and Naïve Bayes (NB).
- ➢ Processed EEG signals using MNE-Python, focusing on channels like "EEG FP1-REF" for standardization and consistency.
- ➢ Applied Z-score normalization and binary label encoding for effective preprocessing and model training.
- ➢ Demonstrated improved robustness in real-time EEG artifact detection scenarios, making the model suitable for brain-computer interfaces (BCIs) and clinical diagnostics.

2. E – Learning Online Website || *Link:* **AAdya Gyan : Online Courses**

Technologies included: HTML, CSS, SCSS, Java Script.   **Dec 2024 – Mar 2025**

- ➢ Using HTML5, CSS3, SCSS, and JavaScript, a responsive e-learning platform was created to guarantee smooth access on all devices.
- ➢ Course modules, interactive tests, and user authentication were all incorporated to improve the educational process.

➢ Front-end performance was optimized, leading to quicker load times and increased user retention. With a 95% user satisfaction rating, the platform was scaled to accommodate over 10,000 concurrent users.

3. **Personal Portfolio || *Link:* [Hari Ram Portfolio](#)**

Technologies included: HTML, CSS, Java Script, PHP.   **Apr 2025 - May 2025**

➢ Using HTML, CSS, and JavaScript, I created and launched a professional portfolio website with a responsive layout that prioritizes mobile devices.

➢ UI elements and interactive navigation were added to enhance the user experience.

➢ reduced asset load times and increased page speed to optimize frontend performance.

➢ Consistent cross-browser compatibility is ensured by the code's modular, maintainable design.

EDUCATION

Rajeev Gandhi Memorial college of Engineering and Technology   A.P, India

Bachelor of Technology (E.C.E). GPA: 7.42   **December 2021 – April 2025**

Sri Gayatri Junior College   A.P, India

Intermediate (M.P.C), Marks: 904   **June 2019 – July 2021**

CERTIFICATIONS

1. **Object-Oriented Programming with Python (Codio)**

   Link: [Codio python3.1 Certificate | edX](#)   **May 2024**

➢ Mastered fundamentals python syntax, proficiently utilizing control flow, loops, functions, data structures.

➢ Acquired expertise in procedural programming paradigms and associated logical concepts, enhancing capabilities.

2. **Big Data, Hadoop, Spark Basics (IBM)**

   Link: [IBM BD0225EN Certificate | edX](#)   **Jan 2024**

➢ Learned about the data ecosystem, including the ETL process and big data basics.

➢ Mastered data gathering, identification, and clearing for analysis preparation.

ACHEIVEMENTS

➢ IEEE YESISIT12 2024 Preliminary Round Participant by RGMCET, A.P.

➢ Smart India Hackathon Participant.

➢ Chief Information Officer (CIO) by Student Activity Club (SAC) || RGMCET.