Harshit Pasalapudi

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Technical Skills

- **Programming Languages:** *Java*, *Python*, *HTML*, *CSS*, *JS*, and *SQL*.
- **Technologies/Frameworks:** *Git*, *GitHub*, *ReactJs*, *BootStrap*.

Soft Skills

- *Continuous Learning*, *Articulate Interaction*, *Problem-Solving*, *Resilience*.

Education

Sathyabama university, Bachelor of Technology in Computer science and engineering. 2021–2025|CGPA:7.6/10

Tirumala Junior College, Board of Intermediate Education in M.P.C 2019–2021|CGPA:8.2/10

Aditya public school,Board of Secondary Education. 2018–2019|CGPA:9.5/10

Projects

Avalench Detection

- Developed and implemented a comprehensive web application for avalanche detection and risk management, designed specifically for military personnel. The app integrated real-time weather data, seismic sensors, radar systems, and predictive analytics to provide accurate avalanche risk assessments, early warnings and emergency response coordination. The platform also featured offline capabilities, drone surveillance integration and a user-friendly interface for both on-field personnel and command teams. Utilized machine learning models for predictive analytics and ensured secure data handling in sensitive military environments.

Brain Tumor Progression Detection

- A Semantic Cloud Resource Broker (SCRB) for cloud computing, which addresses interoperability issues between private clouds using ontology-based indexing and retrieval algorithms, improving resource availability and scheduling success rates. In medical imaging, a Decision Support System (DSS) based on ensemble Convolutional Neural Networks (CNNs) is proposed for detecting and classifying brain tumour stages from MRI images. Both approaches aim to enhance efficiency and accuracy in their fields, demonstrating the potential of semantic and machine learning technologies to improve decision-making. Future work will focus on real-time data integration and scalability.

Internships

Artificial Intelligence: Gained hands-on experience in landmark detection web platform, could be an essential tool for developers, researchers and businesses building AI solutions related to image recognition, navigation, and geospatial data analysis. By providing access to high-quality datasets, tools for model training, and a collaborative environment, it would significantly streamline the development of AI models for landmark detection.

Web Development: Built responsive web applications leveraging React.js, Node.js, Express, and MongoDB to deliver seamless user experiences.

Architected and integrated RESTful APIs to enable efficient data exchange between the frontend and backend. Built and optimized user interfaces to ensure responsiveness, accessibility, and intuitive navigation.

Achievements

Oracle Academy Certification: Demonstrated expertise in Java programming with a proficiency score of 98, showcasing a strong understanding of basic programming concepts.

Coding Platforms: Excelled in Python and Java, contributing to over 500 successful submissions across coding platforms like GeeksforGeeks, Leetcode, and Codechef.

Hacker Rank: Achieved 5-Star Badges in Java and SQL, showcasing expertise in programming concepts.