Rohan Rao Gajvelli

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Skills

Languages: C, Java, Python, JavaScript, SQL

Technologies & Tools: ReactJS, ElectronJS, Django, MongoDB, Selenium

Projects

Jewelry Design Pattern Generation

Description: Jewelry design is a complex art form that combines aesthetics, craftsmanship, and material science. Traditionally, creating unique jewelry patterns requires extensive expertise and creativity. With the advent of deep learning (DL), there is an opportunity to augment the design process by leveraging AI's ability to generate intricate and diverse patterns. This project presents a novel approach to using DL for generating jewelry design patterns, aiming to enhance creativity, efficiency, and customization in the jewelry industry.

Role: Contributed to the backend of the project by building a website using React.js. Developed the backend using Node.js and Flask to connect the deep learning model to the application.

Social Media Data Parsing Tool

Description: Developed a tool to automatically parse data from social media accounts during investigations, capturing posts, messages, timelines, friend lists, followers, and more. This project eliminates human error, ensures thorough review, and generates screenshots in a documented form. It includes separate versions for Android and Windows and provides options for platforms such as Facebook, Twitter, Instagram, Telegram, WhatsApp, and Google. This project was proposed by NIA and implemented as part of Smart India Hackathon (SIH) 2024.

Role: Developed a desktop application, built scraping scripts, connected the scripts to the backend, and designed the database. Integrated the backend with the database and ensured smooth functionality of the application.

AI-Driven Healthcare Solution for Cancer, Tumor, and Pneumonia Detection

Description: Created a CNN-based solution for detecting cancer, tumors, and pneumonia, demonstrating expertise in AI-driven healthcare. This solution leverages deep learning to provide accurate and efficient detection of critical health conditions.

Role: Built a web application and developed the backend to integrate the AI model. Designed and connected the database to both the frontend and backend, and deployed the application using AWS Web Services on an EC2 instance.

Education

Bachelor of Technology in Computer Science and Engineering
Keshav Memorial Institute of Technology
Year of Study: 2nd Year (Expected Graduation: 2027)
Current CGPA: 9.01 (after 1st year)

Achievements

7th Position in National Hackathon by Bharatversity at BITS Hyderabad

Secured 7th position in a national-level hackathon conducted by BharathVarsity at BITS Hyderabad. As part of the competition, I developed an AI-driven healthcare solution for detecting cancer, tumors, and pneumonia. The project demonstrated expertise in applying deep learning to solve critical healthcare challenges.

Shortlisted for Smart India Hackathon (SIH) 2024

My team was shortlisted for the Smart India Hackathon 2024, a prestigious national-level hackathon organized by the Government of India. Out of several teams, we were selected to work on the problem statement related to parsing social media data for investigations, proposed by the National Investigation Agency (NIA). This recognition highlighted our team's problem-solving capabilities and expertise in developing innovative solutions for real-world challenges.

Certifications

CS50 Web Programming with Python and JavaScript

Certificate issued by *Harvard University* for completing the CS50 course on web programming, which covers web development using Python, JavaScript, and various frameworks.

Linux Fundamentals

Received a badge for completing the Linux Fundamentals course by *HTB*. link

Leadership

- **Team Lead, Bharathvarsity Hackathon**
  Led a team of 8 members for a hackathon conducted by Bharatversity at BITS Hyderabad. I was responsible for creating the project flow, coordinating tasks with the team, and ensuring successful project completion. The team secured 7th position in the hackathon.
- **Team Lead, SIH 2024 Hackathon**
  Led a team of 6 members for the Smart India Hackathon (SIH) 2024, focusing on the ”Parsing of Social Media Feeds” problem statement proposed by the National Investigation Agency (NIA). I designed the app flow, effectively communicated tasks, and distributed work among the team, leading to the successful completion of the project.