VEMULA LEELA KUMAR

📞 +91 8374240229 ✉ leelanaidu98@gmail.com in LinkedIn 💼 Portfolio GitHub

Education

SRM Institute of Science and Technology, India   **Expected: May 2024**
Candidate for Bachelor of Electronics and Communication Engineering   *CGPA: 8.55/10*
with Specialization in Data Science with Distinction

Relevant Coursework

- Data Structures
- Data Science
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Machine Learning
- Probability
- Statistics

Projects

Aqua Culture monitoring system using machine learning | *Python, Machine Learning, IOT,* ⃝   **May 2023**
- Developed a comprehensive water monitoring system that provides real-time visual feedback using LEDs to indicate the normality of turbidity, temperature, and pH level readings
- Implemented seamless data transmission to ThingSpeak, leveraging its IoT capabilities for cloud storage, real-time data visualization, and in-depth analysis
- The model is used to make predictions using data, utilize actuators, and manage and monitor the entire system

Bill Extractor | *Python, Flask, OpenCV,* ⃝   **November 2022**
- Employed a range of essential libraries, including OpenCV and Flask, to establish a robust foundation for a web-based image processing application
- Methodically configured and fine-tuned the file upload functionality and session management within the Flask web framework, ensuring a seamless and secure user experience
- Developed an interactive image cropping feature using OpenCV, allowing users to precisely select regions of interest within uploaded images, enhancing usability and user control
- Implemented sophisticated text extraction capabilities through integration with the OCR.space API. This enabled the precise extraction and structured organization of textual content from cropped images. Furthermore, this project seamlessly interfaced with external services for advanced data processing and presented results through a user-friendly chat interface.

Automated car game | *Python,* ⃝   **April 2022**
- Designed and implemented a 2D game utilizing the Pygame library, which showcases an autonomous vehicle navigating a dynamic track
- The project involved initializing the game environment, integrating custom track and vehicle graphics, and orchestrating a sophisticated decision-making mechanism for the car's movement
- The car's trajectory is intelligently guided by the analysis of pixel data from the track's surface, enabling it to make informed turns and advance along the track
- The game maintains a consistent 60 frames-per-second performance, delivering a polished and interactive user experience, thereby demonstrating proficiency in game development and algorithmic problem-solving

Technical Skills

Languages: Python, C++, C, HTML/CSS, JavaScript, SQL
Data Analysis & Visualization Libraries: NumPy, Pandas, Seaborn, Matplotlib
Developer Tools: VS Code, Eclipse, Jupyter Notebook
Technologies/Frameworks: ReactJS, Git, GitHub

Courses And Certifications

- Software Engineering Virtual Experience Program, JP Morgan Chase & Co (October 2023)
- Prepare data for Exploration, Coursera (April 2023)
- SQL for data sciences, Coursera (October 2022)
- Advanced Software Engineering Virtual Experience Program, Walmart (July 2022)

Leadership / Accomplishments

- Solved More than 350+ Coding Challenges on Leetcode (🔗 Profile link)
- Gained 5 star rating in Python, C++, SQL on Hackerrank (🔗 Profile link)
- Conducted a workshop within IEI Students chapter engaging nearly 70+ students, providing them with valuable insights into ReactJS and Managed organizing team of 5+ members.
- As an organized team lead for academic projects. I successfully coordinated and managed teams to deliver high-quality results, demonstrating leadership and project management skills while working on various academic initiatives.