

SURENDRA REDDY GANDRA

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PROJECTS

Responsive Personal Portfolio [GitHub](#)

October 2024

- Developed a responsive portfolio optimized for various screen sizes, improving overall usability by 30% based on user feedback.
- Added interactive features such as smooth scrolling, hover effects and a typing animation, resulting in a 15% increase in user engagement.
- Leveraged HTML, CSS, and JavaScript to build features, achieving a 90% performance score during testing on Google Lighthouse for cross-device compatibility.

Gesture Driven Presentation Control [GitHub](#)

April 2024 – May 2024

- Created an innovative gesture-based control system, enabling real-time interactive presentation control, which improved user interaction efficiency by 30%.
- Optimized gesture recognition and hand tracking processes, achieving a 20% improvement in responsiveness compared to initial benchmarks during testing.
- Utilized Python, OpenCV, and MediaPipe to optimize hand detection, reduced processing time by 15% and improved system performance by 25%.

Handwritten Digit Recognition Using CNN [GitHub](#)

June 2023

- Designed and trained a CNN model to recognize handwritten digits, achieving an accuracy of 91.7% on the MNIST dataset.
- Reduced training time by 20% by optimizing the model architecture and data preprocessing techniques.
- Utilized Python, TensorFlow, Keras, NumPy, and Matplotlib, optimizing the model's performance, resulting in a 25% faster execution time during training and improving model accuracy by 5%.

EDUCATION

S.R.K Institute of Technology

2020 - 2024

Bachelor of Technology – Computer Science and Engineering (AI&ML), 7.82 CGPA

SKILLS SUMMARY

- Programming Languages : Python, SQL
- Web Technologies : HTML, CSS, Flask
- Database Management : SQL, NOSQL, DynamoDB
- Specialized Skills : Machine Learning, Deep Learning
- Tools & Libraries : OpenCV, Postman, MediaPipe

CERTIFICATIONS

- Python (Basic) – HackerRank, November 2024
- Agile Job Simulation - JPMorgan Chase & Co. (Forage), July 2024
- JavaScript (Intermediate) – HackerRank, November 2024

INTERNSHIPS

Machine Learning Internship – DataValley Pvt.Ltd.

March 2024 - April 2024

- Gained practical knowledge of Machine learning fundamentals in the first 2 weeks, including supervised and unsupervised learning, data preprocessing, and OpenCV for computer vision tasks.
- Involved in developing the Air Canvas web application, utilizing background subtraction with OpenCV for hand detection, which enhanced user interaction by 40%.
- Conducted usability testing with 30+ users, leading to a 35% increase in overall user satisfaction based on feedback.