Jinesh Chhajer

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ABOUT

Final year Computer Science Engineering student specializing in Artificial Intelligence, poised to graduate with a strong foundation in software engineering. Adept at problem-solving with a passion for leveraging technical skills to address complex challenges. Proven ability to thrive in collaborative environments, contributing effectively to team efforts aimed at innovative software solutions. Eager to apply knowledge and skills in software development to tackle impactful problems and drive meaningful outcomes.

EDUCATION

NIIT University
B. Tech CSE Expected Graduation: 2025
Relative Coursework: Data Structures and Algorithms, Computer Networks, DBMS

LNC Academy, Bikaner
Class 12th Graduation: 2020

St. Anselm's North City School, Jaipur
Class 10th Graduation: 2018

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL
Software: MySQL, MongoDB, Git/GitHub
Additional: HTML/CSS, Node.js, Express.js, ReactJS
Certifications: PCAP: Programming Essentials in Python

PROJECTS

Sorting Visualizer *January 2024 – May 2024*

- Developed a dynamic web application, Sorting Visualizer, using MongoDB, Express.js, React.js, and Node.js, aimed at showcasing sorting algorithms through real-time visualizations.
- Implemented interactive features that enable users to observe and compare algorithmic efficiencies directly within the web interface.

Posture Detection & Correction *January 2024 – May 2024*

- Applied Deep Learning and Neural Networks to develop a system for real-time posture detection and analysis in sitting posture, yoga and gym exercises.
- Utilized MediaPipe Pose models to enable accurate tracking and feedback on form and alignment during exercises.
- Aimed to enhance exercise safety and effectiveness by providing users with immediate real-time feedback on their postures, leveraging advanced computer vision technologies.

RESEARCH EXPERIENCE

Comparative Analysis of Posture Detection Models *January 2024 – May 2024*

- Conducted detailed comparison of posture detection models (MediaPipe, PoseNet, OpenPose) using rigorous data collection and performance metrics.
- Assessed models for accuracy (precision, recall) and efficiency (inference speed, resource utilization), highlighting strengths and weaknesses.
- Identified key insights on model performance and provided practical recommendations for future enhancements in posture detection technology.

Co-CURRICULAR ACHIEVEMENTS

- Achieved Top 5 placement in Inter School Marathon during high school.
- Secured 2nd place in high school cricket tournament.