




Deepanshu Ganguli

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Education

Vellore Institute of Technology, Bhopal (CGPA: 7.91)

2021 - 2025

B.Tech - Computer Science and Engineering(Core)

Bhopal, Madhya Pradesh

Army Public School Shankar Vihar (XII' 79%)

2020

Central Board of Secondary Education

New Delhi

Army Public School Shankar Vihar (X' 94.8%)

2018

Central Board of Secondary Education

New Delhi

Technical Skills

Languages: C++, SQL, Python, JavaScript, ReactJS

Developer Tools: Selenium, VS Code

Familiar skills: AWS, OOPS, OS, Networking, Databases, SDLC, Microservices

Projects

Music Player

- Developed Interactive Music Player: Built a JavaScript-based music player with seamless playback, interactive UI updates, and intuitive controls, aligning with software development best practices.
- Integrated Event-Driven Architecture: Implemented event listeners for play/pause, progress tracking, and song selection, ensuring an interactive and responsive user experience by 85%.
- Optimized Code for Performance: Structured modular code using HTML, CSS, and JavaScript, enhancing maintainability and scalability by 94% for future improvements.
- Applied SDLC Best Practices: Followed Agile methodologies, debugging techniques, and documentation standards, ensuring efficient troubleshooting and feature enhancements.

COMPUTER VISION BASED PERSONAL TRAINER

- Engineered AI-Powered Fitness Application: Engineered a real-time fitness tracking system using Python, OpenCV, and Media-Pipe to enhance exercise monitoring and accuracy.
- Implemented Machine Learning for Pose Estimation: Leveraged Media-Pipe's advanced ML models to detect and track key body landmarks, ensuring precise motion analysis and 97% accuracy.
- Increased Real-Time Video Processing: Designed an efficient video analysis pipeline to count exercise repetitions like bicep curls and squats, improving user feedback by 89%.
- Enhanced User Engagement with Data-Driven Insights: Integrated potential for personalized workout plans and form correction, aligning with AI-driven innovation and user-centric software development.

WEATHER ANALYSIS APP

- Designed Weather Application: Built a responsive web app using HTML, CSS, and JavaScript to deliver real-time weather updates for user-specified locations.
- Addressed API for Live Data Retrieval: Utilized a weather API to fetch accurate temperature, humidity, wind speed, and forecast details, ensuring up-to-date insights of 200 plus cities.
- Executed Intuitive User Interface: Implemented a visually appealing and interactive UI to enhance user experience and accessibility.
- Supervised Performance and Scalability: Ensured smooth API integration, efficient data handling, and responsive design for seamless cross-device functionality.

Certifications

Google Cloud Digital Leader

Nov 2024

Google

Ethnus AWS Solutions Architect Internship

June 2023

Ethnus

Leadership / Extracurricular

- Idea-thon Finalist, VIT Bhopal: Achieved finalist position, demonstrating innovative and collaboration skills in a competitive tech-driven environment.
- INTACH Heritage Quiz Finalist: Secured finalist spot at the interschool level, showcasing strong research abilities, cultural knowledge, and teamwork in a prestigious academic competition.

Languages and interests

Languages: English, Bengali, Hindi

Interests: Football, History