RAJ KUMAR PODDAR

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SUMMARY

Aspiring Computer Science and Engineering graduate with a focus on computer vision and machine learning. Seeking opportunities in research and development to apply technical skills and learn from industry experts. Proficient in C++, C, Java, DSA, OOPs, Networking, and Web Development (HTML, CSS, JavaScript, React, Redux). Skilled in database management with MySQL and DBMS.

EDUCATION

Bachelor of Technology (B.Tech)

- Pursuing B.Tech in Computer Science and Engineering from Lloyd Institute of Technology, Greater Noida.

Senior Secondary Education *2021*

- Completed Class XII from L.C.S College, Darbhanga, Bihar under BSEB with a score of 75%.

Secondary Education *2019*

- Completed Class X from Bal Kalyan Public School, Pali, Darbhanga, Bihar under CBSE with a score of 70%.

ADDITIONAL INFORMATION

Technical Skills

- **Programming Languages:** Proficient in C++, C, and Java, with a strong foundation in writing efficient, optimized code and developing scalable applications.
- **Core Competencies:** Well-versed in Data Structures and Algorithms (DSA) for problem-solving, Object-Oriented Programming (OOPs) principles for designing modular and maintainable code, and networking concepts for ensuring secure and reliable communication.
- **Web Development:** Skilled in front-end web development using HTML, CSS, and JavaScript, with expertise in building dynamic and responsive user interfaces using React and Redux.
- **Database Management:** Proficient in managing databases using MySQL and DBMS concepts, ensuring efficient data storage, retrieval, and optimization for application performance.

Soft Skills

- Effective Communication
- Problem-Solving
- Critical Thinking
- Conflict Resolution

PROJECTS

Interactive Quiz App

Develop an interactive quiz application that allows users to answer multiple-choice questions, receive real-time feedback, and view their final score. This project enhances skills in DOM manipulation, event handling, and JavaScript logic.

Features:

- **Multiple-Choice Questions:** Present a series of predefined questions, each with four answer options.
- **Instant Feedback:** Provide immediate visual feedback by highlighting correct and incorrect answers.
- **Score Tracking:** Track the user's score in real-time and display the final score at the end of the quiz.
- **Restart Option:** Allow users to retake the quiz and challenge themselves again.
- **Progress Tracker (Optional):** Display the user's progress throughout the quiz.

Tech Stack:

- HTML: Structure the quiz layout and create the user interface.
- CSS: Design and style the quiz for a user-friendly, visually engaging experience.
- JavaScript: Implement functionality for quiz interactions, event handling, and score tracking.

Text-to-Speech Converter

APPROACH

- **Project Setup:** Create a project folder and organize the necessary HTML, CSS, and JavaScript files according to the defined project structure.
- **HTML Structure:** Use HTML elements such as <textarea>, <button>, <div>, <head>, <body>, etc., to define the basic structure of the web page.
- **Styling:** Apply custom styles to the HTML elements by targeting them with appropriate IDs and classes for an enhanced user interface.
- **Text-to-Speech Conversion:** Leverage the Speech Synthesis API provided by the global window object, along with the SpeechSynthesisUtterance interface, to generate speech from the entered text.
- **Speech Playback:** Utilize the speak() method of the Speech Synthesis API to convert the input text into speech and play the generated utterance.
- **Error Handling:** Implement proper error handling to address cases where the user fails to provide text for conversion.

Rock, Paper, Scissors Game
- **Objective:** Create a Rock, Paper, Scissors game where the user plays against the computer.
- **Game Logic:** The computer randomly selects an option, and the results are displayed showing whether the user wins, loses, or ties.
- **Score Tracking:** The scores are tracked and shown at the bottom of the game interface.

Technologies Used
- **HTML:** Structures the game layout.
- **CSS:** Provides a modern and responsive design for the game interface.
- **JavaScript:** Generates the computer's choice, compares results, and controls game logic.

CERTIFICATIONS

Citi ICG Technology Software Development Job Simulation   *February 2025*
- **Completed a job simulation** focused on enhancing Citi's loan management system and stock market risk reporting.
- **Developed a state diagram** of the loan management process using Unified Modeling Language (UML).
- **Researched machine learning systems** for credit risk assessment and provided actionable recommendations.
- **Built an internal tool** in Java to visualize real-time stock market risk data.

ACHIEVEMENTS
- Completed 200 hours of training on Problem Solving using Data Structures
- Attended a Cloud Computing Workshop organized at LIET, Greater Noida
- Participated in a Workshop on Algorithm Thinking & Problem Solving
- Earned a Participation Certificate in the 24-Hours Code-A-Thon, organized at LIET
- Successfully completed HTML Certification Test on YouTube
- Successfully completed CSS Certification Test on YouTube
- Successfully completed JavaScript Certification Test on YouTube