Shalvin Didwaniya

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GitHub | LinkedIn | LeetCode | Codeforces

Skills

Languages: C,C++, Python, HTML, CSS, Javascript

Technologies & Tools: Visual Studio Code, Jupyter Notebook, Google Colab,Git, GitHub, MiniTab

Coursework: Data Structures, Algorithms, Basics of Data Science (NumPy, Pandas)

Others: Video Editing, Designing, Problem-Solving, Team Collaboration, Mentoring, Communication

Project Work

Vertical Platform Runner Game

GitHub

- Developed a web-based platformer game utilizing JavaScript, HTML, and CSS, achieving seamless collision detection and realistic gravity simulation for an engaging gameplay experience.
- Implemented dynamic camera positioning to follow player movement and enhance user experience, with a game response time of under 50ms for smooth performance.
- Optimized platform jumping mechanics, reducing input latency by 30%, and tested cross-browser compatibility on 5+ platforms for consistent functionality.
- Technologies Used: Javascript, HTML, CSS

WebRTC-based peer-to-peer chat

GitHub

- Implemented real-time communication: Designed and developed a WebRTC-powered peer-to-peer chat application, achieving seamless real-time audio and video transmission with a latency of less than 200ms.
- User-friendly interface: Built an intuitive UI using HTML, CSS, and JavaScript, enabling smooth user interactions with a feature-rich experience, tested successfully on both desktop and mobile browsers.

Food ordering habits analysis

- Data collection and analysis: Conducted a survey of 200+ students using Google Forms, analyzing 1,000+ data points to uncover patterns in online food delivery behavior through statistical methods.
- Hypothesis testing: Applied chi-square and ANOVA tests to evaluate factors influencing food ordering, achieving statistically significant insights ($p < 0.05$) into preferences by time slots and motivations like cravings and convenience.
- Actionable insights: Identified peak food ordering times (evening and late night) and key drivers (cravings, mess food dissatisfaction), providing strategic recommendations for food businesses to optimize services.
- Technologies Used: Minitab , Python

Education

Malaviya National Institute of Technology, Jaipur — Aug 2023 - May 2027
B.Tech in Artificial Intelligence and Data Engineering — ***CGPA: 9.33/10***

Positions of Responsibility

- **Active Member, MNIT C2C Club** — Oct 2024 - Present
  - Participated in weekly coding challenges and mentored peers in competitive programming.
- **Executive, DIL, Dramatics Society of MNIT** — Sept 2023 - Present
  - Coordinated many events of the club and participated in different events as a member of the club.
- **Executive, Cultural team, Blitzschlag 2024** — Dec 2023 - Feb 2024
  - Coordinated events of the Rajasthan's largest cultural fest.
- **Orientation Volunteer, JOSAA/CSAB 2024** — Jul 2024
  - Assisted in guiding and welcoming students during orientations.

Professional Aspirations

Eager to work with a diverse team of Googlers and STEP Interns on innovative projects. Keen to learn advanced tools, enhance technical skills, and contribute to impactful solutions in alignment with Google's mission to increase diversity in technology.