ADITYA KESHRI

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Education

Birla Institute of Technology, Mesra	Ranchi, Jharkhand
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.66	*2021 – Present*
Sarala Birla Public School	Ranchi, Jharkhand
12th Board (CBSE); Percentage: 93.33%	*2019 – 2021*

Relevant Coursework

Data Structures and Algorithms, Operating System, Object Oriented Programming, Database Management System and Computer Networking

Experience

Reseach Project -BIT Mesra   May 2024 – June 2024
Research Intern   *Github Repo*

- **Engineered an advanced deepfake detection model**, leveraging MBConv blocks and SAM modules in PyTorch, achieving state-of-the-art feature extraction and attention mechanisms.
- **Spearheaded the development of a high-efficiency pipeline** integrating optical flow analysis with multiprocessing, enhancing processing speed by 30% and improving identification accuracy by 25% in video datasets.
- **Achieved an 80% accuracy rate**, setting a new benchmark for deepfake detection robustness.
- **Technologies and libraries utilized:** PyTorch, OpenCV, skimage, concurrent.futures, torch_xla, Kaggle.

Projects

Food-Express | *React.js, MongoDB, Express.js, Node.js*   May 2024 – June 2024
Individual Project   *Github Repo*

- **Designed and developed a highly responsive food delivery web app** utilizing MongoDB, Express.js, React.js, and Node.js, providing a seamless user experience.
- **Implemented an intuitive search bar and category differentiation**, reducing search time by 25% and enhancing user navigation.
- **Leveraged MongoDB for robust data storage**, ensuring the integrity and accessibility of user information, food details, and order histories, increasing data retrieval speed by 30%.
- **Built comprehensive admin and user sections**, incorporating user authentication, logout, and detailed order tracking features for enhanced user engagement and administrative control.

Anuvad-Translate | *HTML, CSS, JavaScript*   July 2023 – Sept 2023
Individual Project   *Github Repo*

- **Developed a language translation app** using JavaScript, HTML, and CSS, providing users with seamless translation capabilities.
- **Integrated MyMemory API for real-time translations**, ensuring accurate and quick language conversions, reducing translation time by 20%.
- **Implemented user-friendly features**, including text swapping, language selection, and clipboard operations, enhancing overall app usability.
- **Enhanced user experience with speech synthesis**, adding text-to-speech functionality for better accessibility and interaction.

Technical Skills

Languages: C++,Python, Java, C, HTML/CSS, JavaScript
Framework: React.js, Express.js, Node.js, Tailwind CSS
Databases: MySQL, MongoDB
Developer Tools: Visual Studio Code, Git, Github, Kaggle, Google Colab
Soft Skills: Creative Thinking, Problem Solving, Teamwork, Communication, Empathy

Languages Known

- English (Full Working Proficiency) • Hindi (Full Working Proficiency)

Other Interests

- Cricket • Volleyball