

ADITYA KESHRI

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Education

Birla Institute of Technology, Mesra

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.67

Ranchi, Jharkhand

2021 – Present

Sarala Birla Public School

12th Board (CBSE); Percentage: 93.33%

Ranchi, Jharkhand

2019 – 2021

Relevant Coursework

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

Experience

Research 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