ABHINAV OJHA

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EDUCATION

Madan Mohan Malaviya University of Technology 2021 - 2025
Bachelor of Technology in Computer Science and Engineering (**7.23 CGPA**) Gorakhpur, IN

PROJECTS

CourseMaster ⧉ | Node.js, Express.js, RESTful APIs , MongoDB, JWT, ReactJS,

- Developed a MERN-based course-selling platform, enabling admins to manage courses and users to purchase/access content via a responsive, optimized frontend.
- Built RESTful APIs with Node.js and Express for CRUD operations, secure JWT-based authentication, and role-based access for efficient course management.
- Utilized MongoDB with Mongoose for structured data storage, designing schemas for users and courses with backend validations.
- Integrated Multer for efficient file handling, enabling seamless video uploads and storage for courses
- GitHub Repo

Sorting Visualizer ⧉ | ReactJS, JavaScript

- React-based Interactive Algorithm Visualization Tool
- **Customizable User Experience**: Features like dynamic array generation, adjustable speeds, and choosing algorithms
- **State Management Expertise**: Utilized React Hooks and functional state updates to manage component states and prevent inconsistencies during complex operations.
- Gained in-depth knowledge of sorting algorithms, JavaScript implementations, and React workflows
- GitHub Repo

Text To Emoji Converter ⧉ | HTML, Tailwind CSS, JavaScript,Git

- Built a text-to-emoji encryption tool using HTML, Tailwind CSS, and JavaScript for encoding and decoding messages with password-based security.
- Implemented Unicode-based encryption and decryption logic.
- Utilized localStorage for persistent data handling, allowing seamless storage and retrieval of user input and encryption keys.
- GitHub Repo

Employee-Performance-Prediction ⧉ | Flask, HTML, CSS, ML libraries, Python

- Developed an Employee Performance Prediction model with a user-friendly Flask interface.
- Trained and evaluated three models (Linear Regression, Random Forest, XGBoost) based on R^2 scores.
- Integrated model predictions into the frontend using a Flask API for real-time interaction.
- Gained experience in ML model training and deployment, linking backend predictions to the UI..
- GitHub Repo

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating System
- Computer Networks
- Database Management System
- C++ ⧉
- Web Development (MERN stack)
- Machine Learning ⧉
- JavaScript
- Python ⧉

CODING PROFILES

Leetcode ⧉   Coding Ninja ⧉   GeeksforGeeks ⧉

EXTRACURRICULAR

- University Innovation Cell (Vice-President)
- Member, Organizing Team - Innowizion'24⧉
- Co-Ordinator, Institution's Innovation Council, MMMUT