Vishal Singh

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EDUCATION

Maharana Institute of Professional Studies   **09/2022 – Currently pursuing**
Bachelor of Technology(B.Tech) - Computer Science & Engineering -   *Mandhana, Kanpur*

PROFILE SUMMARY

- **Independent and self-motivated professional**, recognized for dedication and commitment to achieving goals.
- **MERN stack developer** and Computer Science student skilled in building **responsive, high-performance applications** with a strong focus on user experience.

TECHNICAL SKILLS

Programming: Java, Python, JavaScript, HTML5, CSS3, Tailwind CSS, Node.js, React.js, C/C++, Express.js
Database: MongoDB, MySQL
General: Data Structure and Algorithms, OOPs, Problem Solving
Developer Tools: Visual Studio, PyCharm, Git, GitHub, Dev C++
Technologies: RESTful APIs, asynchronous request handling, version control systems (Git and GitHub), state management libraries (Redux, Context API), CNN (yolov5)

COURSEWORK / SKILLS

- DSA
- DBMS
- Neural Networks (CNN)
- Full Stack Developement
- Software Developement
- Operating System

PROJECTS

Notion Academy ⬈ | **Tools:** React, NodeJs, MongoDB, ExpressJs, Razorpay, Redux, Git, Responsive Design

Notion Academy is a cutting-edge MERN stack learning platform where admins, instructors, and students collaborate.
Responsibilities:

- Instructors can create interactive courses where **100+ students can learn, engage, and collaborate through the Doubt Forum.**
- **Role-based access for 3 user types—Admin**, Instructors, and Students—ensures secure authentication and authorization, **supporting over 1,000+ users across the platform.**
- **Integrated Razorpay** enables secure and **seamless payments for 500+ transactions monthly**, while Cloudinary storage improves data retrieval efficiency by 20%.

Currency Convertor ⬈ | **Tools:** React, API Integration, Responsive Design, Git

Built a responsive currency converter using React.js and APIs, supporting **real-time exchange rates for 50+ currencies** and **boosting mobile engagement by 15%**.
Responsibilities:

- Designed and implemented a **high-performance web application for real-time currency conversion**, leveraging **React.js and API integration to support 50+ global currencies**.
- Utilized **Git** for version control, ensuring seamless collaboration and efficient project management.

CNN Authentication System ⬈ | **Tools:** Python & CNN (YOLOv5) Model

- Gathered and annotated **2,000 images using LabelImg** to create a custom dataset for the **YOLOv5 ML model**.
- Transformed data management workflows by initiating a quarterly review process, leading to the identification of inefficiencies and **enhancing overall user satisfaction ratings by 15% based on feedback surveys**.
- Trained the model on Google Colab, achieving **detection accuracy of over 90%** for Card Authentication.

ACHIEVEMENTS & CERTIFICATION ⬈

- **Certified MERN Stack Developer** from CodeHelp, **expertise in full-stack web development**.
- Achieved **4th rank** in the college coding competition ***Code-o-Fiesta***, showcasing technical proficiency an& competitive aptitude.
- **Selected and qualified** for the **Internal Smart India Hackathon 2023**, highlighting innovative problem-solving skills and teamwork capabilities.