

Yuvraj Singh

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EDUCATION

Malaviya National Institute of Technology, Jaipur

Bachelor of Technology

Jaipur, Rajasthan

Nov 2020 – May 2024

EXPERIENCE

Front - End Developer Intern

Jan 2024 – Mar 2024

Dotnitron Technologies

- Demonstrated proficiency in front-end development by utilizing, Next.js for achieving server-side rendering, resulting in a 23% performance improvement
- Built a secure login page using Shadow DOM components to integrate seamless user authentication with NextAuth reducing unauthorized access attempts by 50%
- Implemented responsive design techniques ensuring optimal display across devices, leading to a 30% increase in mobile user engagement.
- Collaborated closely with back-end developers and UX designers to enhance user interface and usability, resulting in a 15% boost in user satisfaction scores
- Optimized website components for maximum speed and scalability, reducing page load times by 35%.
- Tech Stack: **Shadcn, Next.js, React.js, JavaScript**

PROJECTS

Predictive Maintenance using SMOTE Resampling and Random Forest

Jan 2024 – Apr 2024

- Developed high-accuracy predictive models, achieving **98% accuracy with XGBoost and Random Forest**
- Executed advanced data preprocessing in **Python** by applying cleaning, imputation, standardization to ensure data quality
- Mitigated class imbalance using **SMOTE** to enhance model performance by 20% on minority classes.
- Conducted rigorous model evaluation with **accuracy, recall, F1 score, and confusion matrices**.

Mega Blog App | [GitHub](#)

Dec 2023 – Mar 2024

- Developed a **feature-rich application using React.js** encompassing functionalities such as Signup, SignIn, Protected Pages, Visual Editor with 10+ text formatting options, and Image Upload
- Integrated **Appwrite** for robust back-end support, ensuring secure user authentication and seamless UX
- Employed **Redux state management** to maintain application state consistency

Hotel Management System | [GitHub](#)

Sep 2023 – Dec 2023

- Engineered a comprehensive hotel management system with functionalities for sorting hotels based on price and rating ranges and providing a list of hotels in a specific area or locality
- Integrated **React.js, Node.js, MongoDB, and Express.js** for a seamless user experience, resulting in a **40%** decrease in system downtime.
- Implemented features providing curated hotel lists, resulting in increase in booking conversions and a **15%** decrease in customer support inquiries.

SKILLS

Languages: C++/C, Python, JavaScript, HTML, CSS, SQL

Libraries/Frameworks: React, Node.js, Express.js, MongoDB, Numpy, Pandas, Scikit-learn

Developer Tools: Git, VS Code, Visual Studio

Course Works: Data Structures and Algorithms, DBMS, Operating System, OOPS, Machine Learning

ACHIEVEMENTS AND LEADERSHIP

- Ranked **570 out of 16,000+** participants in **Codeforces Round Div 3** | [Link](#)
- Solved **500+** problems on platforms like **Leetcode, HackerRank, Codeforces, Codechef, GeeksforGeeks**
- Ranks in the **top 14% of Leetcode** users | [Link](#)
- **6 stars** in Data Structures and Algorithms and **5 stars** in C++ on Hackerrank | [Link](#)
- General Executive Member of Data Science Club: **Led initiatives** to enhance data literacy, **organized workshops**, and **collaborated on projects** promoting data-driven decision-making