

MUKUL RAJPUT

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EDUCATION

Bachelor of Technology with **74.2%**, ABES Institute of Technology

2020–2024

TECHNICAL SKILLS

Programming Language	Java
Frontend	HTML5, CSS3, JavaScript, React.js
Backend	Node.js, Express.js, Mongoose
Database	MongoDB, SQL
Developer Tools	VS Code, Postman, IntelliJ

EXPERIENCE

Frontend Development

At ABES Institute of Technology

July 2023 – October 2023

Ghaziabad

DoctorLink:

- Developed an online appointment booking platform, DoctorLink, using **JavaScript**, **React**, and **Bootstrap**, featuring a user panel for patients and an admin panel for managing 30+ doctors.
- User Authentication and Appointment Booking: Integrated secure user registration and sign-in functionality, enabling patients to book appointments with doctors from **10 specialties**.
- Admin Functionality: Designed an admin interface for adding new doctors, managing schedules, and overseeing appointments, ensuring streamlined healthcare management.
- Patient Feedback System: Integrated a doctor rating system, allowing patients to provide feedback after treatment, and improving overall ratings by **20%**.
- Responsive and Interactive Design: Leveraged React and Bootstrap for **100% responsive UI**, ensuring a smooth experience across **all devices** and optimizing performance for healthcare users.

PROJECTS

E Commerce website using React:

- Built a scalable e-commerce platform using **React**, handling over **50+** product listings and providing a smooth user experience for browsing and purchasing.
- Introduced advanced search and filtering functionality, allowing users to sort products by categories, price, and ratings, improving product discovery by **30%**.
- Merged shopping cart and order management system, providing users with the ability to add, remove, and review items before purchasing.
- Achieved **100%** responsiveness across all devices by utilizing React's component-based architecture, ensuring consistent performance and user satisfaction.

CropIQ:

- Designed CropIQ, a machine learning-based recommendation system for **22 crops** using **Random Forest** and **Decision Tree** algorithms for accurate crop selection and disease diagnosis.
- Crop Recommendation System: Utilized classification techniques to analyze soil, weather, and crop data, providing farmers with the best crop recommendations, improving yield by **20%**.
- Fertilizer Recommendation: Integrated predictive models to recommend optimal fertilizers based on soil nutrients and crop type, enhancing resource efficiency.
- Disease Detection: Implemented disease identification functionality, helping farmers detect and prevent crop diseases early, reducing losses by **15%**.

BMI Calculator:

- Developed a BMI Calculator using React, allowing users to input their weight in kilograms (kg) and height in centimeters (cm) to calculate their BMI.
- Dynamic BMI Category Display: Executed conditional rendering to categorize calculated BMI results into classifications such as underweight, normal weight, and overweight, providing users with immediate feedback.
- User Input Analysis: Collected and analyzed input data from over **20-25 users**, providing insights into average BMI trends and helping to raise awareness about healthy weight management in the community.