



CHAYAN SAINI

B.E. - CSE - Data Science

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BRIEF SUMMARY

My name is Chayan Saini, and I hail from Meerut, Uttar Pradesh. Currently, I am in my 3rd year of pursuing a Bachelor of Engineering in Computer Science (Data Science) at RNS Institute of Technology, Bangalore.

Initially, I started my academic journey in Electronics and Communication Engineering (ECE) but transitioned to Computer Science (Data Science) in the 3rd semester to better align with my passion for data science and other technologies.

With a robust technical background and a keen interest in continuous learning, I am passionate about exploring and mastering cutting-edge technologies. I thrive in dynamic environments where I can apply my problem-solving skills and technical expertise to practical challenges.

I am actively seeking opportunities that allow me to leverage my technical knowledge, grow professionally, and contribute effectively to innovative projects. As a dedicated student, I offer a fresh perspective, an eagerness to learn, and a commitment to excelling in the ever-evolving tech landscape.

KEY EXPERTISE

Java HTML CSS Javascript ReactJS NodeJS SQL NoSQL MongoDB Express.js
Front-End Web Development OOPs Problem Solving Data Structures Algorithms Computer Networking Python
NumPy Pandas R Data Analysis

EDUCATION

RNS Institute of Technology

2021 - 2025

B.E. - CSE - Data Science | CGPA: **6.58 / 10**

Meerut Public School, Meerut

2020

12th | CBSE | Percentage: **88 / 100**

Meerut Public School, Meerut

2018

10th | CBSE | Percentage: **84 / 100**

Personal Portfolio Website

20 May, 2024 - 28 May, 2024

Team Size: 2

Key Skills: HTML CSS Javascript

Developed a Responsive Personal Portfolio Website using HTML, CSS, and JavaScript, designed to showcase my skills, projects, and professional achievements. The website is optimized for both web and mobile platforms, ensuring seamless accessibility and user experience across all devices.

Key Features -

Responsive Design: Implemented a fully responsive design using CSS media queries and flexible grid layouts to ensure the website looks and functions well on desktops, tablets, and smartphones.

Interactive UI: Utilized JavaScript to create dynamic and interactive elements, including a navigation menu, project gallery with modals, and smooth scrolling effects.

Professional Showcase: Structured sections for about me, skills, projects, experience, and contact information, providing a comprehensive overview of my professional profile.

Clean and Modern Aesthetic: Designed with a clean, modern aesthetic using CSS for styling, ensuring a visually appealing presentation that highlights content effectively.

Cross-Browser Compatibility: Ensured compatibility across major web browsers for a consistent user experience.

Performance Optimization: Applied best practices for performance optimization, including efficient code structure and image optimization, to enhance loading times and overall website performance.

SEO Friendly: Incorporated basic SEO principles to improve search engine visibility and accessibility.

Technologies Used -

HTML: For the structure and semantic content of the website.

CSS3: For styling, layout, and responsive design techniques.

JavaScript: For interactivity and dynamic content.

Successfully created a versatile and engaging personal portfolio website that effectively showcases my professional capabilities and projects. The responsive design ensures optimal performance and user experience across various devices, reflecting a strong understanding of modern web development practices.

Car Rental Database Management System

15 Jan, 2024 - 25 Mar, 2024

Mentor: Mrs. Navya Shree Ma'am | Team Size: 2

Key Skills: CSS Javascript PHP PhpMyAdmin ReactJS HTML

The Car Rental Database Management System is a robust and comprehensive web application designed to streamline and manage the operations of a car rental service. This project leverages a combination of modern web technologies, including HTML, CSS, JavaScript, PHP, and ReactJS, to deliver a seamless and efficient user experience for both administrators and customers.

Key Features and Functionalities -

1.) User Authentication and Management:

Registration and Login: Users can register for an account and log in securely using encrypted credentials.

User Profiles: Each user has a profile page where they can update personal information and view rental history.

2.) Car Listings:

Dynamic Listings: The system showcases a dynamic list of available cars with detailed information such as make, model, year, rental price, and availability status.

Search and Filter: Users can search for cars based on various criteria like type, brand, price range, and availability, ensuring they find the perfect vehicle to meet their needs.

3.) Booking System:

Real-time Availability: Users can view real-time availability of vehicles and make bookings accordingly.

Booking Management: The system handles all aspects of the booking process, from selecting a car and rental period to payment processing and booking confirmation.

4.) Payment Gateway Integration:

Secure Payments: Integrated payment gateways allow users to securely make payments online for their rentals.

Transaction History: Users can view their payment history and download receipts for completed transactions.

5.) Administrative Dashboard:

Car Management: Admins can add, update, or remove cars from the inventory. They can also manage car details and pricing.

Booking Management: Admins have access to all bookings, with capabilities to approve, decline, or modify reservations.

User Management: Admins can view and manage user accounts, ensuring that the system is used responsibly.

6.) Responsive Design:
Cross-Device Compatibility: The application features a responsive design, ensuring usability across various devices including desktops, tablets, and smartphones.
User-Friendly Interface: With intuitive navigation and a clean interface, the system ensures a positive user experience for all users.

Technological Stack -

- 1.) Frontend:
HTML5 and CSS3: For creating the structure and styling of the web pages.
JavaScript: For adding interactivity and enhancing user experience.
ReactJS: A powerful JavaScript library used to build dynamic and responsive user interfaces.
- 2.) Backend:
PHP: Server-side scripting language used to handle data processing and server-side logic.
MySQL: A relational database management system used to store and manage all data related to users, cars, bookings, and transactions.

Development Highlights -
Modular Architecture: The project is built using a modular architecture, making it scalable and maintainable.
Security: Emphasis on security with measures like data validation, encryption, and secure payment processing.
API Integration: Utilizes APIs for features such as payment gateway integration and real-time data updates.

SEMINARS / TRAININGS / WORKSHOPS

Two-day Hands-on Workshop on DATA ENGINEERING 18 Jan, 2024 - 19 Jan, 2024

Institute Name: RNS Institute of Technology

Key Skills: Python Data Engineering

Participated in an intensive Two-day Hands-on Workshop on Data Engineering, where I gained practical experience and in-depth knowledge of the fundamental concepts and advanced techniques in data engineering.

Key Highlights -

Data Pipeline Construction: Learned to design, build, and maintain efficient data pipelines to automate the flow of data from various sources to data storage and processing systems.
ETL Processes: Gained hands-on experience with Extract, Transform, Load (ETL) processes, including data extraction from diverse sources, data transformation for consistency and quality, and loading into data warehouses.
Big Data Technologies: Explored key big data technologies and tools such as Apache Hadoop, Apache Spark, and Kafka, understanding their applications in processing large datasets.
Data Warehousing: Studied data warehousing concepts, including schema design, data modeling, and querying, with practical exercises using platforms like Amazon Redshift and Google Big Query.
Database Management: Worked with both SQL and NoSQL databases, mastering techniques for data storage, retrieval, and management to ensure data integrity and performance.
Data Integration and Workflow Orchestration: Delved into data integration techniques and workflow orchestration tools such as Apache Airflow to streamline data engineering processes.
Scalable Data Architecture: Learned best practices for designing scalable and resilient data architectures to support growing data needs and ensure high availability.
Real-world Applications: Engaged in real-world case studies and projects to apply data engineering concepts, simulating industry scenarios and problem-solving.

Enhanced my practical skills and theoretical understanding of data engineering, equipping me with the capabilities to handle complex data engineering tasks and contribute effectively to data-driven projects. The workshop provided a solid foundation in building and managing data infrastructure, preparing me for advanced roles in data engineering.

WEB LINKS

- o Github - <https://github.com/chayan273132>

PERSONAL DETAILS

Gender: Male	Date of Birth: 07 Sep, 2002
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