

# Rahul Singh

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## Skills

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**Languages:** C/C++, Python, JavaScript, SQL

**Technologies & Tools:** Git, Jupyter, Power BI, ReactJS, MongoDB, NodeJS

## Education

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### VIT Bhopal University

B.Tech. in Computer Science and Engineering

Sept 2021 - Aug 2025

**CGPA: 7.44/10**

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms.

## Work Experience

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### Kays Energy, Bhatinda, Punjab | Web Developer | July 2024 – Sep 2024

- **Tech Stack:** React, Node.js, MongoDB, JavaScript, HTML, CSS, Git.
- Spearheaded the migration from outdated web technologies to a modern, scalable stack including React, Node.js, and MongoDB, significantly enhancing user scalability and maintaining optimal performance during peak traffic.
- Engineered an automated database cleanup system, reducing storage costs by 70% through efficient archiving of inactive user data.
- Optimized frontend performance and decreased server response times, resulting in a 40% improvement in page load speed and reduced server resource consumption.

### Bharat Intern, Remote | Data Analyst Intern | Dec 2023 – Jan 2024

- **Tech Stack:** Excel, Python, SQL, Power BI, Pandas, NumPy, Matplotlib.
- Facilitated the migration of data pipelines to AWS, improving scalability and boosting data processing efficiency for critical analytics workflows.
- Developed automated dashboards using SQL and Python, delivering real-time insights that decreased manual reporting by 50%.
- Enhanced data accuracy by scripting comprehensive data cleaning and validation processes, elevating the quality of reports and analyses across departments.

### Devtern, Remote | Data Analyst Intern | Dec 2023 – Jan 2024

- **Tech Stack:** Python, Pandas, NumPy, Matplotlib, SQL.
- Built a dynamic dashboard to track metric patterns and identify anomalies, reducing investigation time by 40%.
- Applied clustering algorithms to group data points and detect outliers, enabling teams to focus on high-priority issues.
- Designed and deployed a Machine Learning model using logistic regression and decision trees, increasing customer churn prediction accuracy by 25% after analyzing over 50,000 records.

## Project Work

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### Data Extraction and NLP (2023):

- Executed advanced web scraping techniques to collect data from multiple URLs and applied Natural Language Processing (NLP) to convert raw content into meaningful insights.
- Analyzed extracted text for sentiment, subjectivity, complexity, and readability, providing a comprehensive scoring system for content across websites.
- Automated data collection and analysis using Python, BeautifulSoup, and Regular Expressions, enabling real-time sentiment and readability metrics.

### Music Player Web App (2024) (Frontend project):

 HTML, CSS, JavaScript

- Developed a responsive browser-based music player using HTML, CSS, and JavaScript, supporting local audio file uploads with core playback features such as play, pause, and stop.
- Streamlined the user experience by designing an intuitive interface that enhanced user interaction during testing.

### Real Time Whiteboard (2024) (Frontend project):

 HTML, CSS, JavaScript, Socket.io

- Built a real-time whiteboard for multi-user collaboration using Vanilla JavaScript and Socket.io.
- I have features like - pencil with different colors, eraser with sizes, sticky notes, sticky images and download boards.
- Implemented an undo-redo feature using arrays as stacks to manage user input.
- Used Socket.io and Node events to react back real-time changes to multiple users.

## Certificates

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- JavaScript Algorithms and Data Structures - freeCodeCamp

# Additional Information

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- **Hobbies:** Reading about latest Technologies, Sketching, Play table Tennis, Open-source
- **Languages:** Hindi, English