

# RAHUL PRASAD SINGH

Andheri, Mumbai

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## EDUCATION

Sardar Patel Institute of Technology , Mumbai

B.Tech - Computer Engineering - CGPA - 7.9

2022 – 2026

Mumbai, Maharashtra

## EXPERIENCE

Intern at SP- TBI

Role - Software Developer

Feb 2025 - Present

Andheri, Mumbai

- Developed RESTful APIs and designed database schemas (**SQL/NoSQL**) for startup KPI tracking.
- Built data processing pipelines to analyze key metrics for business decision-making.
- Implemented security measures, authentication, and data validation.
- Integrated third-party APIs and optimized backend performance.
- Worked in a team using **Agile methodologies** to develop a scalable system. Learned teamwork, agile practices, and project management.
- Gained experience in backend technologies, cloud services, and collaborative development. Learned how to work with different technologies and integrate them effectively.

## PROJECTS

**MoodSync- Movie Recommendation System.** | TfidfVectorizer ,sklearn,cosine\_similarity Jan 2025

- Data Preprocessing** – Extracts and cleans movie metadata, handling missing values for accurate recommendations.
- Feature Engineering** – Combines genres, keywords, tagline, cast, and director into a single text-based feature.
- Similarity Computation** – Uses **TF-IDF Vectorization** and **Cosine Similarity** to measure movie similarities. Suggests movies similar to the user's input based on computed similarity scores.

**Sync - Realtime Chat Application** | React, Database -MongoDB, Express JS ,Node Js Sep 2024

- Supports one-to-one and group chats with real-time messaging via WebSockets. Includes message history and admin controls.
- Secure authentication with JWT, role-based access control, and protected user data.
- Profile management with personal details, profile pictures, and a contact system for easy connections.
- Efficient data storage ensures fast retrieval and scalability for high message volumes.

**Medical Insurance Cost Prediction Model** | numpy,pandas,matplotlib,seaborn,sklearn Nov 2024

- Developed a **Medical Insurance Cost Prediction** model using **Linear Regression**, optimizing accuracy with feature engineering.
- Performed **data preprocessing and exploratory data analysis (EDA)** using Pandas, NumPy, Matplotlib, and Seaborn.
- Handled **categorical features (Sex, Smoker, Region)** and ensured data integrity by addressing missing values.
- Evaluated model performance using **R<sup>2</sup> score and Mean Absolute Error**, improving prediction reliability.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, SQL

**Technologies/Frameworks:** HTML5, CSS3, React, MongoDB, Express, NodeJs, Bootstrap,Flask

**Developer Tools:** PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, Jupyter ,Collab,VScode

## CERTIFICATIONS

- Mastering Data Structure and Algorithms - Udemy
- Node Js - HackerRank

## EXTRACURRICULAR

- Mentored school children at Abhyudaya, SPJIMR, providing guidance in academics, career development, and life skills from Jan 2024 - April 2024