

Rishu Raj Sinha

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EDUCATION

- **Rajiv Gandhi Institute of Petroleum Technology**, UP, India 2020 - 2024
 - Bachelor Of Technology, Computer Science Engineering, **SPI: 8.2**
- **Gaya college, Gaya**, Bihar, India 2017 - 2019
 - Intermediate, Science , **88.2%**
- **Gurukul School ,Sherghati**, Bihar, India 2016 -2017
 - **10th**, CGPA: **10.0**

ACCOMPLISHMENTS

- Qualified **IIT-JEE Advanced** 2020, ranking in the **top 2%**.
- **ONGC Scholar**: ONGC MERITORIOUS SCHOLARSHIP 2020-21
- **Facebook Hacker cup 2022**: Advanced to Round 1, rank: 5009th
- **Solved 400+** problem on codechef, codeforces, leetcode, geeksforgeeks
- **Head of Team Zorin** , Science and technical council RGIPT
- **Web developer** at codechef RGIPT SC
- **Designing Head** at Cultural Council RGIPT
- Designing Executive **FIPI** RGIPT SC

WORK EXPERIENCE

- **Internship at Hackveda Limited: Python Developer**
 - Email Automation, Web Crawler [Link](#)
 - Data analysis of stock market data, generation of candlestick patterns. June 2023- Sep 2023
- **Web developer, Science and technical council RGIPT**
 - Created official Website of S&T RGIPT: [LINK](#) Oct 2021- 22
 - Workshop: Full stack Web development for over 100 attendees.
- **Teaching Volunteer, Gyanarpan ,Project Amethi**
 - Physics Class 11th.

PROJECTS

- **College Gate-pass web app** (ReactJs, MongoDB, Node.js, Express.js) | [Link](#)
 - This web application is designed to solve one of the daily life problems faced by the students of RGIPT campus - the time-consuming process of filling out gate-pass forms by hand and verifying with the two levels of the department hostel office and the gate Guard. By digitising the process, I aimed to reduce the physical labour and handling of handwritten data with the use of CRUD operations.
- **CodeMeet web application** (Socket.io, WebRTC, CodeMirror, React.js) | [Link](#)
 - This project features a video calling platform with a real-time and synchronised code editor, designed for technical interviews. The platform uses Socket.io, WebRTC, CodeMirror, and React.js to enable simultaneous editing and debugging of code by both the interviewer and interviewee in a common editor.
- **ChatBot** (MySQL, Java, SpringBoot, OpenAI API, Postman, React.js) | [Link](#)
 - Developed AI-powered chatbot integrated with Spring Boot microservice for interactive user interface using React.js, with login and registration page.
- **Sorting Visualizer** (ReactJS, JavaScript, HTML, CSS, DSA) | [Link](#)

SKILLS

- **Languages**: C, C++, JavaScript, Java, HTML, CSS, Python, SQL
- **Frameworks**: NodeJS, ExpressJS, ReactJS, MERN, Springboot, Socket.io, WebRTC
- **Tools**: MongoDB, Git, Github , MySQL, Power BI, Adobe Photoshop
- **Soft Skills**: Leadership, Teaching, Writing, Public Speaking, Time Management
- **Interest**: DSA, Competitive Programming, Web development, AI/ML

PROFILES

- [Leetcode](#): 250+ problems solved.
- [Codechef](#): Max rating 1596
- [Codeforces](#): 1000+ rating.
- [Github](#)

- A web application using React and DSA to visualise sorting algorithms in real-time with interactive controls for array size and speed.

➤ **Human activity recognition** (Python, Machine Learning, LSTM, numpy, CNN) | [Link](#)

- This project aims to build a human activity recognition system using deep learning techniques such as LSTM and CNN to accurately identify and classify various human activities based on uploaded video as input.

➤ **Image Cartoonizer** (Python, Machine Learning, K-mean clustering, numpy, Matplotlib) | [Link](#)

- Developed a machine learning-based cartoon creation project using K-means clustering for automatic image segmentation and stylization, producing artistic and appealing cartoon versions of photos