

# ROUSHAN KUMAR

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🐙 [Github](#)

🏆 [HackerRank](#)

👨‍🍳 [CodeChef](#)

## EDUCATION

National Institute of Technology, Tiruchirappalli

2021 – 2025

B.TECH Computer science - **CGPA - 7.13**

Tiruchirappalli, Tamil Nadu

## PROFILE SUMMARY

- Targeting Software Engineer roles with a reputable organisation that offers opportunities for knowledge enhancement and career growth.
- Skilled in various programming languages and frameworks, with experience in both front-end and back-end development.
- Committed to **staying updated** with the **latest industry** trends and technologies, continuously enhancing skills to provide innovative solutions.

## COURSEWORK / SKILLS

- Data Structure and Algorithms (DSA)
- Operating Systems
- OOPs Concepts
- Database Management System (DBMS)
- Software Engineering
- Computer Networks
- Web Development

## EXPERIENCE

**AI Intern at NIT Trichy** 📄 | ML, DL, CNNs, Image Preprocessing

May 2024 - July 2024

- Internship Project: "Colorectal Cancer Detection Using ML & DL Algorithms".
- Developed a deep learning model with CNNs and utilized **transfer learning** for medical image analysis.
- Achieved high accuracy, demonstrating AI's potential for early and precise cancer detection.
- Worked with various **ML and DL algorithms** and applied **Image Preprocessing Techniques**.

## PROJECTS

**VIDEO CHAT** 📄 | HTML, CSS, WebRTC, Reactjs, Socket.io

2024

- Built an audio video chat application using WebRTC api and Reactjs.
- It works on exchanging ip addresses, sending SDP and realtime data using socket.io
- Created the RTCPeerConnection using STUN servers provided by google.
- Handling final peer negotiation and remote streaming.

**MOVIE RECOMMENDATION SYSTEM** 📄 | Python, panda, NumPy

2023

- Developed a Movie Recommendation System using the k-nearest neighbours' algorithm.
- It involved analysing user data, such as movie ratings and genre preferences.
- Identify other users with similar interests and recommend movies that they have enjoyed.

## TECHNICAL SKILLS

**Languages:** C++, Python, JavaScript, HTML, CSS

**Frontend Technologies:** Reactjs

**Backend Technologies:** Node.js, Express.js

**Databases:** SQL, MySQL

**Version Control:** Git

**Developer Tools:** Visual Studio Code, Npm, Microsoft Office

## CODING PLATFORMS

- **HackerRank:** I achieved 5 star in C++ programming language

## CERTIFICATIONS

- Earned a certification in C++, DSA , Full stack web development
- Earned a certification in Google Analytics
- Earned a certification in Microsoft Fundamental AI, Microsoft Fundamental ML

## POSITIONS OF RESPONSIBILITY

**NSS, NIT TRICHY**

2022-2024

- Worked in NSS, it is a two-year voluntary service where students are allowed to develop their personality through social service. NSS volunteers have helped in the plantation project in college. Blood donation camps, computer coaching for school children, cleaning up temples.