

# RAJAT AGRAWAL

📍 IIT Kharagpur, West Bengal, India  
📞 +91-9460554805  
✉️ rajatagrawal072000@gmail.com  
🌐 <https://github.com/dev-razz>

## EXPERIENCE

### Software Engineering Intern | TCG Digital

May 2023 – Jul 2023

- Created Flask APIs using python from the ground up, utilizing Pandas for Excel file reading, processing and validation
- Leveraged Elasticsearch to efficiently index >100k processed data, significantly improving search and retrieval times
- Containerized the app using Docker, and added multithreading processing for upto 3x performance increase

### Frontend Developer | IC2C

Aug 2021 – Sep 2021

- Developed a responsive UI website using React.js and Tailwind CSS for a socio-professional career platform
- Hosted the website on Firebase, utilizing Firestore database and Authentication to support various login methods
- Utilized Git and GitHub for version control and collaborative development, maintaining a well-documented codebase

### Associate Manager | Entrepreneurship Cell, IIT Kharagpur

Apr 2020 – Apr 2021

- Led team of 15 members for execution of Empressario and GES 2021 with 20+ VCs, 200+ startups and 5k+ students
- Collaborated with peers to oversee 20+ workshops and competitions, with a total prize pool exceeding 30 lakhs
- Managed content for social media handles, reaching out to 100k+ people and achieving a 40% YoY increase in reach

## EDUCATION

<b>IIT Kharagpur</b> — Biotechnology and Entrepreneurship Engineering	2019 – Present	8.50 CGPA
<b>Lord Buddha School, Kota</b> — CBSE(XII)	2017 – 2019	87%

## PROJECTS

### Pose Correction App | MTP

Jul 2023 – Sep 2023

- Leveraged OpenCV for live feed and Mediapipe pose library for accurate detection of landmarks on the human body
- Utilized 32 landmark co-ordinate to compute angles, which were used to validate accurate posture during exercise
- Used Streamlit to deploy the model as a user friendly web application (<https://workoutapp.streamlit.app/>)

### Algorithmic Trading

Apr 2022 – Jul 2022

- Analysed NSE price data and generated Buy and Sell Signals using RSI, MACD, Bollinger Bands technical indicators
- Programmed Twitter and recent stock news sentiment analyzer yielding 70% accuracy to gain valuable insights
- Built a diversified portfolio of 20+ stocks, reducing volatility by 20% and outperforming NSE benchmark index by 15%

## SKILLS

- Framework & Languages: C++ , Python , Javascript , C# , SQL , React.js , Next.js , Flask , Nodejs , Matlab , R
- Tools: Postman , Firebase , TensorFlow , Elasticsearch , MongoDB , Git , Figma , Docker , Tailwind , Adobe Suite

## COMPETITIONS/AWARDS

- Spearheaded team of 6 members to reach National Finals among 8,000+ institutes in the Smart India Hackathon by creating a platform to aid NDRF teams with auto analysis of social media for improved emergency response
- Secured Gold among 23 IITs by creating platform for users to access research materials, among other functionalities
- JEE Advanced 2019: Secured a rank among the top 3.31% of students of total 2.45L candidates