Ranjan Kumar

📞 7870892576　✉ ranjankumar930405@gmail.com　in Ranjan Kumar　⊙ Ranj-001

EDUCATION

B.Tech in Computer Science and Engineering	Nov. 2022 - May 2026(Expected)
Indian Institute of Technology Patna	*Current CGPA:* **8.93**
Senior Secondary (Class 12th)	May 2022
Lord Buddha Public School,Aurangabad,Bihar	*Grade:* **95%**
Secondary (Class 10th)	May 2020
Lord Buddha Public School,Aurangabad,Bihar	*Grade:* **98.2%**

PROJECTS

P2P File Sharing System | *ReactJS, NodeJS, ExpressJS, MongoDB* | *Autumn 2024* 　　　　**Source Code**

- **Designed and developed** a secure **P2P file sharing system** with **user registration**, **role-based access control**, and **file categorization** (e.g., documents, images, videos).
- Implemented robust features including **file upload/download**, **search functionality** by **name/type/description**, and **encrypted file transfers** using a custom protocol.
- Created a **user-friendly interface** enabling seamless **file sharing**, **secure communication**, and efficient **peer-to-peer file transfers**.

Portfolio-Optimiser | *Python, Pandas, pandas-datareader, NumPy, matplotlib* | *Spring 2024* 　　**Source Code**

- Optimized stock portfolios using the **Efficient Frontier** and **Sharpe Ratio**, analyzing historical **FAANG stock** data via **Yahoo Finance API**.
- Implemented portfolio **performance metrics**, including **annual returns**, **volatility**, and **asset allocation** visualization to aid investment decisions.

ACHIEVEMENTS

- Currently Working at **Atlassian** as a Software Engineering Intern.
- **Expert** on **Codeforces** with a maximum rating of **1618**. 　　　　**Profile link**
- **5-star** rated **CodeChef** coder with a **peak rating of 2097** and a **global rank of 928**. 　　**Profile link**
- Secured Rank **182 in India** and **1192 globally** out of **22,494** participants in **Round 1** of **Meta Hacker Cup 2024**. 　　　　**Certificate**
- Secured a global rank of **96** in **CodeChef Starters 120(Div. 4)** among **27,700+** active participants.
- Secured a global rank of **663** in **Codeforces Round 951(Div. 2)** among **22,000+** active participants.
- Secured **99.8 percentile** and **AIR 1817** out of more than **10** lakh candidates in **JEE Mains 2022** and an AIR **3247** out of more than **1.5** lakh candidates in **JEE Advanced 2022**.

SKILLS

Languages and Frameworks: C/C++, JavaScript, HTML, CSS, MySQL, familiar with Object Oriented Programming(OOPS), Windows, Node.JS, ExpressJS, MongoDB, ReactJS, SpringBoot, Kotlin, Java, Python.

COURSEWORK

Computer Science: Programming & Data Structures, Algorithms, Discrete Mathematics, Database Management Systems, Computer Networks, Operating Systems, Software Lab and Tools, Theory of Computation, Artificial Intelligence, Machine Learning.
Mathematics: Linear Algebra, Ordinary Differential Equation, Complex Analysis, Optimization Techniques, Probability Theory & Random Process.

CERTIFICATIONS

- Participated in **Open AI Hackathon** conducted by **Microsoft**. (Jan 2024) 　　　　**Certificate**
- Successfully completed the **Google Cloud Study Jam** offered by Google Cloud demonstrating proficiency in Cloud Computing. (2023) 　　　　**Certificate**

EXTRA-CURRICULAR

- Serving on the **Calling & Process-Handling Team** at **IIT Patna's Centre for Career Development & Counselling (formerly TPC)**, I manage outreach calls, **streamline event workflows** and liaise with corporate partners, sharpening my **communication** and **process-management skills**.