

Ranjan Kumar

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EDUCATION

B.Tech in Computer Science and Engineering <i>Indian Institute of Technology Patna</i>	Nov. 2022 - May 2026(Expected) <i>Current CGPA: 8.87</i>
Senior Secondary (Class 12th) <i>Lord Buddha Public School, Aurangabad, Bihar</i>	May 2022 <i>Grade: 95%</i>
Secondary (Class 10th) <i>Lord Buddha Public School, Aurangabad, Bihar</i>	May 2020 <i>Grade: 98.2%</i>

PROJECTS

P2P File Sharing System <i>ReactJS, NodeJS, ExpressJS, MongoDB</i> <i>Autumn 2024</i> <ul style="list-style-type: none">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.	Source Code
Portfolio-Optimiser <i>Python, Pandas, pandas-datareader, NumPy, matplotlib</i> <i>Spring 2024</i> <ul style="list-style-type: none">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.	Source Code

ACHIEVEMENTS

• 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 949 .	Profile link
• Secured Rank 182 in India and 1192 globally out of 22,494 participants in Round 1 of Meta Hacker Cup 2024 .	Certificate
• Ranked 41st globally in CodeChef Starters 126 (Div. 2) among 2,000+ participants.	
• 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.	
• Mastered data structure and algorithms by solving 1200+ problems on top coding platforms and online judges.	
• Secured 99.8 percentile and All India Rank 1817 out of more than 10 lakh candidates in JEE Mains 2022 .	
• Secured an All India Rank of 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.

COURSEWORK

Computer Science: Programming & Data Structures, Algorithms, Discrete Mathematics, Database Management Systems, Computer Networks, Operating Systems, Software Lab and Tools, Theory of Computation.
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

- Collaborated with **cross-functional teams** to plan and execute successful events for IIT Patna's **Techno-Management Fest (Celesta)** and the **Training and Placement Team**, enhancing event participation and placement coordination.