Ranjan Kumar

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EDUCATION

B.Tech in Computer Science and Engineering	Nov. 2022 - May 2026(Expected)
Indian Institute of Technology Patna	*Current CGPA:* **8.92**
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

Portfolio-Optimiser | *Python, Pandas, pandas-datareader, NumPy, matplotlib* | *Spring. 2024*   **Source Code**
- Developed a tool to optimize stock portfolios using the **Efficient Frontier** and **Sharpe Ratio**, maximizing returns and minimizing risk.
- Integrated **Yahoo Finance API** via pandas-datareader to analyze historical **FAANG stock data**.
- Implemented portfolio performance metrics, enhancing investment decision-making through **annual returns**, **volatility**, and **asset allocation visualization**.

Classic Snake Game | *HTML, CSS, JavaScript* | *Spring. 2024*   **Source Code**
- Leveraged web development technologies to create interactive features such as **snake movement** and **collision detection**, ensuring a seamless user experience.
- Enhanced user experience with **integrated sound effects** and captivating **visual styling** using CSS, creating an immersive and appealing game environment.

ACHIEVEMENTS

- **Expert** on **Codeforces** with a maximum rating of **1618**.   **Profile link**
- **5 Star Coder** on **Codechef** with a peak rating of **2050**.   **Profile link**
- 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 **1002** in **Codeforces Round 954(Div. 3)** among **23,900+** active participants.
- Achieved 1345th place globally in **Educational Codeforces Round 164(Div. 2)** among **13,000+** active participants.
- Mastered data structure and algorithms by solving **1000+ 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

COURSEWORK

Computer Science: Programming & Data Structures, Algorithms, Discrete Mathematics, Database Management 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**
- Secured an AIR 2727 in **Codekaze-Sep'23**: Round 2 Naukri Engineers Week Conducted By Coding Ninjas. (2023)   **Certificate**

EXTRA-CURRICULAR

- Volunteered at the **Techno-Management Fest of IIT Patna(Celesta)**, collaborating with cross-functional teams to plan and execute successful events.   2022-23