





# Sakshi Kumari

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## EDUCATION

### Indian Institute of Technology (IIT) Patna

(B.Tech in Chemical Engineering CPI: 7.62 (current))

Patna, India

Nov 2022 - May 2026 (Expected)

### S.G. Public School

(AISSCE in PCM and Information Practices conducted by CBSE. Percentage 83.4%) April 2018 - March 2020

Chandauli, India

## PROJECTS

### Seating Arrangement Generator | Python, Streamlit, Pandas, CSV/Excel File Handling | Nov. 2024 [Source Code](#)

- Applied advanced computer science principles to develop a massively scalable, distributed software system to manage exam seating for 9,800+ students across multiple rooms.
- Automated seating allocation, reducing manual effort by 80% and ensuring a conflict-free arrangement with high efficiency.
- Optimized updates with adjustable configurations, enabling quick modifications.
- Enhanced data handling efficiency by integrating seamless CSV/Excel file import/export.

### Stock Market Analysis | Python, Pandas, Matplotlib, mplfinance | Oct 2024

[Source Code](#)

- Analyzed over 1,000 rows of stock data to calculate daily returns and performed statistical analysis including average, median, and standard deviation.
- Created 5+ visualizations including candlestick charts, moving average plots, and volatility trends using a 30-day rolling window.
- Identified 10+ bullish and bearish phases based on 50-day and 200-day moving average crossovers, highlighting key market trends.

## ACHIEVEMENTS

- Attained the Specialist rank on Codeforces (peak rating: **1477**), demonstrating strong command over data structures and algorithms for crafting optimized solutions. [Profile link](#)
- Secured a global rank of **1474** in **Codeforces Round 1002 (Div. 2)** among **20,000+** participants.
- Ranked in the **Top 1.2%** (407 out of 34,000 participants) in **Google Girl Hackathon 2024**, demonstrating expertise in applied research and innovative solution development.
- Secured **Rank 1** in the junior category and **Rank 14** overall out of **200+** participants in **Coderush by AlgoUniversity 2024**.
- Mentored 10+ students in **academic development** through the **Buddy4study Mentorship Program**.
- Attended 8 mentoring sessions with Microsoft professionals, enhancing leadership and teamwork skills, resulting in a 25% improvement in team discussions and presentations.
- Awarded the **Panasonic Ratti Chhatr Scholarship**, being one of 30 students selected from all IITs to represent IIT Patna. Received INR 42,500 yearly to support academic expenses. [Certificate](#)
- Recognized as one of the 5,000 nationwide recipients of **Reliance Foundation Undergraduate Scholarship 2022**, awarded INR 50,000 annually for academic scholarly growth. [Certificate](#)

## CERTIFICATIONS

- Contributed to distributed systems projects during Codepeak, India's leading open-source event. [Certificate](#)
- Mastered Cloud Computing and distributed software concepts through Google Cloud Study Jam. [Certificate](#)

## SKILLS

- Languages and Frameworks:** C/C++, Python, JavaScript, HTML, CSS
- Libraries and Tools:** Pandas, NumPy, Matplotlib, Seaborn, mplfinance, Streamlit, SQL, Git, GitHub, Excel, Tableau, Power BI
- Concepts:** Data Analysis, Data Structures Algorithms, Scalable Systems, Statistical Modeling
- Platforms:** Jupyter Notebook, VS Code, Unix/Linux

## COURSEWORK

- Core Courses:** Programming & Data Structure, Data Science Introduction, Introduction to Python Programming
- Mathematics:** Linear Algebra, ODE & PDE, Elementary Analysis, Real Analysis, Complex Analysis