

SOHAMDEEP MONDAL

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PERSONAL SUMMARY

Final-year Civil Engineering student at Jadavpur University (2026) passionate about data analytics and data-driven decision making. Skilled in Python, C++, SQL, and Excel with experience in EDA and Coding. Strong problem-solving, communication, and leadership abilities demonstrated through academic projects and organizational roles.

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript
- **Data Analytics:** Excel, Pandas, NumPy, Matplotlib, Scikit-Learn
- **Databases:** PostgreSQL, MySQL, SQL
- **Tools:** Git, VS Code, Jupyter Notebook, GitHub
- **Core Concepts:** Data analysis, DSA, DBMS

PROJECTS

File Compressor (<https://github.com/sohamdeep72/Compressor-decompressor>)

- Developed a C++ Huffman-based compressor/decompressor with custom .sohamdeep binary format.
- Optimized performance using heap-based tree construction, bit-level packing, and binary I/O.
- Delivered a robust CLI with error handling, format validation, and support for text/binary files.

EDA on Loan Risk (<https://github.com/sohamdeep72/EDAonLoanRisk>)

- Conducted feature engineering and correlation analysis to classify customer risk profiles.
- Delivered actionable insights for improving lending decisions and portfolio management.

ACHIEVEMENTS

- **Codeforces:** Rated 1260
- **Hackathons:** Finalist, Grab Hackathon 2025
- **Exams:** AIR 13k, JEE Advanced 2022 and 98%ile, JEE Main 2022.

EXPERIENCE AND LEADERSHIP

Operations Head, E-Cell, Jadavpur University

May 2023 - Present

- Led logistical operations for multiple events, using data analysis to organize events and boost participation.

Finance Convenor, U-Turn '23-24

Jan 2024

- Managed a budget of 2.62 lakhs rupees, coordinating with multiple teams to ensure resource allocation and fiscal compliance.

EDUCATION

- **Bachelor of Engineering**, Civil Engineering, Jadavpur University(2026)
- **Higher Secondary (WBCHSE)(2022)** and **Madhyamik Examination (WBBSE)(2020)**, Kolaghat Thermal Power Plant High School

CERTIFICATIONS

- Azure AI Fundamentals (AI-900) by Microsoft, Python course from Google, Full Stack Web Development Course from Udemy