MITHUN DUTTA

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LeetCode   CodeChef   Codeforces

EDUCATION

Indian Institute of Engineering Science And Technology, Shibpur   *August 2023 - Present*
Bachelor of Technology in Computer Science and Technology
- CGPA: 8.6/10.0
- **Coursework:** Data Structure, Algorithms, Theory of Computation, Digital Logic

Jateswar High School, Higher Secondary Education   *2020 - 2022*
- Percentage: 84%

KhirerKote High School, Secondary Education   *Completed 2020*
- Percentage: 90.3%

COMPETITIVE EXAMINATIONS

JEE Main: 97.5 percentile   *2023*
WBJEE: Merit Rank 679   *2023*

PROJECTS

Path Visualizer Program   *LINK*
- Developed an interactive pathfinding simulator using Pygame that integrates multiple algorithms (Dijkstra's, A*, etc.) with performance analysis.
- Designed a user-friendly interface for custom obstacle placement and real-time algorithm visualization.

Sorting Algorithm Visualizer   *LINK*
- Developed a Python visualization tool that demonstrates the inner workings of various sorting algorithms with interactive parameter controls.
- Implemented rigorous testing protocols to ensure algorithm accuracy and efficiency across diverse data distributions.

Optimal Path Coverage System (Mini Project)   *LINK*
- Developed a modified Dijkstra algorithm that optimizes paths using distance, road difficulty, dynamic cleaning status, and visit counts.
- Implemented a daily maintenance simulation that updates campus data and selects high-priority routes for cleaning.
- Enhanced system reliability with robust backup and restoration features for real-time campus data management.

TECHNICAL SKILLS

Programming Languages: C, C++, Python

Version Control: Git, GitHub

Areas of Expertise: Data Structures and Algorithms, Competitive Programming, Path Finding Algorithms

COMPETITIVE PROGRAMMING

LeetCode: Top 16.39% globally with a rating of 1658; solved 420+ problems; consistent problem solver

Codeforces: Achieved a maximum rating of 1295; completed 280+ challenges

CodeChef: 3-star coder with rating of 1618

Overall: Solved 700+ Data Structures and Algorithms problems across competitive platforms