

# Kushagra Gupta

Undergraduate Student

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## Profile

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Undergraduate student with strong fundamentals in programming, Data Structures, and Object-Oriented Design in Java; actively preparing for competitive programming, building hands-on projects, and exploring systems-level concepts.

## Education

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### Bachelor of Technology (B.Tech)

IILM University, Greater Noida

Expected Graduation: 2029

## Certification

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Getting Started with Machine Learning Algorithms (Simplilearn)

## Technical Skills

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- **Languages:** Java, C; Python, JavaScript
- **Core CS:** Data Structures & Algorithms, Object-Oriented Programming (Java)
- **Web:** HTML, CSS, TailwindCSS
- **Tools:** Git, LeetCode, MySQL , Maven , Java Swing

## Data Structures & Algorithms

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- Worked with arrays (including multi-dimensional arrays), linked lists, stacks, and queues.
- Applied searching and sorting algorithms with time and space complexity analysis.
- Practicing recursion and learning tree-based data structures.
- Solved Easy and Medium problems on LeetCode, focusing on edge cases and correctness.
- Actively preparing for competitive programming contests.

## Projects

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### Student Grading System (Java)

- Developed a terminal-based application to manage and evaluate student academic records.
- Implemented sorting and searching algorithms to rank students and efficiently retrieve data.
- Focused on clean logic design and correctness of algorithmic implementation.

### Text Analyzer (Java)

- Built a file-based text analysis tool that reads and processes raw text input.
- Implemented tokenization, word frequency counting, and identification of top-N frequent words.
- Computed statistics such as longest word and sentence/word length distribution.

## Interests

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Deep Tech, Low-Level Programming, Competitive Programming, Computer Organization and Design, Electronics, IoT, Robotics