Alok Kumar

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SKILLS

- **Languages**:   Python, Java, R
- **Frameworks**:   HTML and CSS
- **Tools/Platforms**: MySQL, RStudio, Tableau, Microsoft Excel
- **Soft Skills**:   Problem-Solving Skills, Team Player, Project Management, Adaptability

TRAINING

GeeksForGeeks   July 2024

About: Completed a 26-week intensive training program covering Data Structures, Algorithms, System Design, DBMS, OS, and OOPs

- Worked on hands-on projects like Sudoku Solver and Binary Tree Visualizer, implementing problem-solving and visualization techniques
- Practiced competitive programming and coding problem-solving to enhance efficiency in tackling real-world technical challenges

Tech stacks used: Programming Languages: C++, Java

- Data Structures & Algorithms**:** Arrays, Linked Lists, Trees, Graphs, Dynamic Programming, Greedy Algorithms
- Databases: SQL , MySQL
- Other Concepts: Object-Oriented Programming (OOP), Operating Systems, System Design, Aptitude and Reasoning

PROJECTS

Binary Tree Visualizer   July 2024

- Built a Binary Tree Visualizer to represent tree structures dynamically
- Implemented tree traversal algorithms such as in order, preorder, and post order to display tree nodes
- Used graphical representation techniques to visually illustrate parent-child relationships
- where each node has up to two children: a left child and a right child

Sudoku Solver   June 2024

- Developed a Sudoku Solver using backtracking algorithm to efficiently solve 9x9 Sudoku puzzles
- Implemented constraint satisfaction techniques to reduce the search space and optimize performance
- Utilized data structures such as 2D arrays and recursion to ensure accurate puzzle validation and completion
- Designed an interactive interface to visualize the step-by-step solving process

CERTIFICATES

- Data Analysis with Tableau (Coursera)   October 2024
- Complete Interview Preparation (java) by GFG   July 2024
- R Programming by Coursera   March 2024
- The Bits and Bytes of Computer Networking (Google)   November 2023
- Mastering Data Structures & Algorithms using C and C++ (Udemy)   October 2023

ACHIEVEMENTS

- **Solved 100+ questions on LeetCode**:   January 2024
  Demonstrated good knowledge of Data Structures and Algorithms by continuously solving problems on LeetCode

- **Institute rank 192 on GeeksForGeeks**:
  Demonstrated problem solving skills by consistently solving 600+ coding challenges, improving my institute rank

- **Gold Badge in python on HackerRank:**
  Earned a Gold Badge by solving Python problems, showcasing proficiency in programming and problem-solving

EDUCATION

- **Lovely Professional University**   Punjab, India
  *Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.0***   *August 2022-August 2026*

- **Ram Sharan Rai Inter College**   Panapur (Makkanpur) Bihar
  *Intermediate; **Percentage: 61%***   *April 2020 - March 2022*

- **Mahnar St Joseph's School**   Mahnar, Bihar
  *Matriculation; **Percentage: 62.4%***   *April 2019 - March 2020*