Mohd Juned Khan

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PROFESSIONAL SUMMARY

A motivated Computer Science and Engineering student with a strong foundation in data analysis, programming languages, and development tools. Looking for opportunities to apply analytical and technical skills in a dynamic environment, contribute to data-driven projects, and continuously improve expertise in data analysis and visualization.

EDUCATION

Lovely Professional University, Phagwara, Punjab **2022-2026**
    Bachelor of Technology in Computer Science and Engineering

- Current GPA: 7.1/10 (5th semester)

Crescent Convent School, Ghazipur, Uttar Pradesh **2020-2021**
    Senior Secondary Education

- Percentage: 60.8%

TECHNICAL SKILLS

- **Programming:** R, Python, C++
- **Data Analysis:** Tableau, Excel, R Studio
- **Tools:** VS Code

PROJECTS

N-Queen Visualizer **2024**

- Developed an interactive N-Queen problem visualizer using C++ and SFML graphics library
- Implemented backtracking algorithm to solve the N-Queen problem efficiently
- Created a user-friendly interface allowing users to adjust board size and visualize solution steps
- Optimized the algorithm to handle large board sizes (up to 20x20) with minimal lag
- Incorporated data analysis features to track solving time and number of recursive calls

Sudoku Solver **2024**

- Designed and implemented an efficient Sudoku solver in C++ using backtracking algorithm
- Developed a user-friendly command-line interface for inputting Sudoku puzzles of varying difficulties
- Utilized bitmasking techniques to optimize the solving algorithm, reducing runtime by 40%
- Implemented advanced pruning strategies to significantly reduce the search space for complex puzzles
- Integrated comprehensive error handling to manage invalid inputs and unsolvable puzzles gracefully
- Created a visualization component to display step-by-step solution process for educational purposes
- Conducted extensive testing with a diverse set of Sudoku puzzles to ensure solver reliability and accuracy

CERTIFICATIONS

- Excel Skills (Coursera)   2024

- Bits and bytes of networking (Coursera)   2024

- DSA(Self-paced) (GeeksforGeeks)   2024

LANGUAGES

- English (Professional working proficiency)

- Hindi (Native proficiency)

- Urdu (Basic proficiency)

References available upon request.