Rahul Kumar Singh

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# Skills

* **Languages**: C++, Java, Python, R
* **Frameworks**: HTML and CSS
* **Tools/Platforms**: MySQL, Tableau, MS Excel
* **Soft Skills**: Adaptable, Time Management, Active listener, Problem Solving

# Training

**Data Structures and Algorithms - Self paced From Geeks for Geeks** June 2024 – July 2024

* **About**: Online summer training course on “Solving competitive problems using data structure”.
* **Description**: This program provided in-depth knowledge and practical skills in applying various data structures such as arrays, linked lists, trees, and graphs. Gained proficiency in algorithm design, optimization techniques, and problem solving strategies, helped to excel in competitive programming competitions and real-world software development scenarios.
* **Project Overview**: N-Queens by using Backtracking Algorithm in C++.

# Projects

**EMPLOYEE MANAGEMENT SYSTEM (Java Project)** Jan 2025

* Aim: Build a Java-based system to manage employee records.
* Details: Features include employee data storage, search, update, and deletion.
* Outcomes: Improved database management, Java development, and CRUD operations understanding.

**CUSTOMER ANALYTICS (R Project)** Nov 2024

* Aim**:** Analyze customer shipment data to identify key factors affecting on-time deliveries, segment delayed customers, and conduct competitor sentiment analysis.
* Details**:** Built classification models to predict on-time deliveries, visualized shipment patterns, and performed customer segmentation and competitor sentiment analysis.
* Outcomes**:** Identified key shipment delay factors, developed predictive models, segmented delayed customers, and analyzed competitor sentiment.

**N-QUEENS (C++ Project)** July 2024

* Aim**:** Develop a C++ program to solve the N-Queens problem using backtracking.
* Details**:** Implements recursive backtracking to place N-Queens on an N×N chessboard while ensuring no two queens attack each other. Features include solution validation, multiple solution display, and optimized searching.
* Outcomes**:** Improved understanding of backtracking algorithms, recursion in C++, and problem-solving skills in constraint-based problems.

# Certificates

## Visualization with Excel ( Coursera*)* Apr 2024

## Supervised Machine Learning: Regression and Classification (Coursera) Oct 2024

* Data Structures and Algorithms - Self paced From Geeks for Geek July 2024
* R Programming (Coursera) Apr 2024

Education

**Lovely Professional University** Punjab, India

### Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.4** Since August 2022

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**Kendriya Vidyalaya Sukna** Siliguri, West Bengal

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### Intermediate; **Percentage: 84%** April 2019 - March 2020