

Ved Kumar Singh

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Summer Training

Cipher School

June 2024 - July 2024

- Learned Data Structures and Algorithms (DSA) in C++ and implemented key algorithms
- Completed a project titled "BST", where I explored tree concepts such as insertion, deletion, updating, and other functionalities.
- Applied data wrangling techniques to handle missing values and optimize dataset performance.
- Automated data extraction and visualization workflows to enhance decision-making.
- GitHub Repository Link: <https://github.com/ved5541>

Tech stack used: C++

Projects

Data Processing and Visualization | R Programming Application

Aug 2024 - Nov 2024

- Developed an R-based data processing and visualization system for analyzing hospital management system data.
- Cleaned, transformed, and structured large datasets to extract meaningful insights.
- Utilized ggplot2, dplyr, and tidyverse for data visualization and statistical analysis.
- Created interactive charts and reports to represent patient records, appointments, and hospital resource usage.
- Applied data wrangling techniques to handle missing values and optimize dataset performance.
- Automated data extraction and visualization workflows for improved decision-making.
- Github Repository Link: Data Processing and Visualization

Password Generator | Java Application

Jan 2024 - May 2024

- Engineered a robust password generator using Advanced Java, incorporating strong encryption mechanisms.
- Integrated password encryption functionality into a Java Swing GUI, ensuring both security and user-friendly interaction.
- Implemented secure randomization techniques and encryption algorithms to generate strong, unpredictable passwords.
- Strengthened backend development skills by managing data security, encryption, and user authentication.

Employee Management System | Web Application

Jan 2025 - Feb 2025

- Designed a full-stack Employee Management System to handle employee records, including CRUD operations (Create, Read, Update, Delete).
- Built a responsive front-end using HTML, CSS, JavaScript, and Bootstrap for a user-friendly interface.
- Integrated Spring Boot for backend development, managing database operations and RESTful API services.
- Implemented role-based authentication and authorization for secure access control.
- Enhanced database management using Spring Data JPA and Hibernate for efficient data handling.
- Improved performance and scalability through optimized backend services and responsive UI design.

Certificates

Machine Learning Specialization

Coursera

Aug 2024 - Nov 2024

DSA with C++

Cipher School

June 2024 - July 2024

Excel Skills for Business Specialization

Coursera

Jan 2024 - May 2024

Technical Skills

Languages: Python, Java, C++

Technologies/Frameworks: Springboot

Skills: Data Structures and Algorithms, Project Management

Education

Lovely Professional University

Computer Science and Engineering - CGPA: 6.0

Since Aug 2022

Jalandhar, Punjab

RLSY Senior Secondary School

Intermediate With Science - Percentage: 63%

April 2020 - March 2021

Patna, Bihar

RPS School

Matric - Percentage: 77%

April 2018 - March 2019

Patna, Bihar