

Akshay Pratap Singh

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SKILLS

- **Languages:** C++, C, JAVA, Python, JavaScript
- **Frameworks:** TensorFlow, Scikit-Learn, NumPy, Pandas, ggplot2, tidyverse, Hadoop
- **Tools/Platforms:** RStudio, Tableau, MySQL, Git
- **Soft Skills:** Problem-Solving Skills, Time Management, Teamwork

PROJECTS

- **Text Data Analysis - YouTube Case Study** Jan -2025
 - Conducted data analysis on YouTube categories and trends using Sentiment Analysis and Word-cloud Generation.
 - Loaded and processed data from CSV and JSON files, exporting results back to both formats. Explored audience engagement patterns, identified top categories, and analyzed trending topics.
 - Generated word clouds using STOPWORDS, performed sentiment analysis, and identified top emojis, revealing that most viewers expressed happiness.
- **Sudoku Solver Visualizer** July-2024
 - Developed a dynamic Sudoku solver using JavaScript, implementing a backtracking algorithm with visual feedback, real-time validation, and puzzle fetching from a backend API.
- **Shortest Path Finder:** Dec-2023
 - Implemented a shortest path finder using Dijkstra's Algorithm, applicable to GPS navigation for route optimization and network analysis for identifying efficient data transmission paths.
 - Tools Used: VS Code, GitHub, Live Server.
- **Restaurant Website:** Nov-2022
 - Developed a responsive restaurant website with an interactive, visually appealing menu for an enhanced user experience.
 - Gained hands-on experience in implementing front-end web development techniques.
 - Tool used: VS_CODE using HTML for structure and CSS for styling.

SUMMER TRAINING

- **Data Structure Algorithm using C++ from CipherSchools** June-July 2024
 - Completed an intensive 6-week training program centred on mastering Data Structure and Algorithms.
 - Enhanced problem-solving skills through hands-on coding exercises and algorithmic challenges.
 - Experience in solving problems on Leetcode, Codeforces, HackerRank, and CodeChef.

CERTIFICATION

- NPTEL - Cloud Computing Oct-2024
- Data Structures and Algorithms (CipherSchools) July-2024

CERTIFICATES

- Machine Learning for Trading Specialization Feb 2025
- Supervised Machine Learning: Regression and Classification Dec-2024
- The Bits and Bytes of Computer Networking | by Google Aug-2023

ACHIEVEMENTS

- Earned a 4-star rating in SQL on HackerRank, demonstrating strong database query and manipulation skills.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.52 Since August 2022
- **DAV Fertilizers Public School** Babrala, Uttar Pradesh
Intermediate; Percentage: 83.8% 2020
- **DAV Fertilizers Public School** Babrala, Uttar Pradesh
Matriculation; Percentage: 87.8 % 2018