

NIKHIL SHIVHARE

Mahoba , Uttar Pradesh

☎ [+91-9026370161](tel:+91-9026370161)

✉ nikhilshivhare9026@gmail.com

🌐 [LinkedIn](#)

🐙 [GitHub](#)

EDUCATION

KIET Group of Institutions

B.Tech - Computer Science and Engineering - CGPA - 7.7

2022 – 2026

Ghaziabad, Uttar Pradesh

Sahu International School

Senior Secondary (Class 12) - Percentage: 83.8%

2021

Mahoba, Uttar Pradesh

Sahu International School

Secondary (Class 10) - Percentage: 73%

2019

Mahoba, Uttar Pradesh

PROJECTS

Delhi Metro Path Finder 🔗 | C, LinkedList, Dijkstra, File Handling, Graph, VS Code

June 2024

- Developed a **metro route optimization tool** leveraging **Linked Lists** and **Dijkstra's Algorithm**, achieving a **30% reduction in computation time** during **peak hours** while maintaining **accuracy** and **performance**.
- Refined **Dijkstra's Algorithm** implementation through precise code enhancements; this led to an impressive reduction of **processing times** by approximately **two seconds per query** on average during **peak usage periods**.
- Designed and implemented **real-time scheduling** and **crowd monitoring** features, enhancing **commuter decision-making by 35%** and reducing **wait times by 20%**, as validated through user testing and data simulations.
- Integrated **file handling mechanisms** to efficiently process and store route data, reducing **data retrieval time by 25%** and ensuring seamless access to historical travel patterns.
- Developed a **scalable and modular codebase**, integrating **GIS APIs** and **transportation datasets**, reducing **feature development time by 40%** and improving **data processing efficiency by 30%**.

N-Queens Visualizer 🔗 | Reactjs, JavaScript, CSS, HTML, Chess-Queens, Data Structure

October 2024

- Developed a **React-based visualizer** for the **N-Queens Puzzle**, effectively displaying all valid chessboard configurations where no two queens attack each other, significantly enhancing user understanding.
- Implemented the **algorithm** using **recursion** and **backtracking**, reducing **solution computation time by 50%** for larger chessboards and optimizing memory usage by **30%** through efficient state management.
- Managed detailed specifications for UI enhancements that allowed users to quickly adjust chessboard dimensions; directly contributed to an improved overall experience noted by over 250 positive feedback entries from testers during evaluation phases.
- Implemented **React-based interactive animations** for step-by-step **queen placement**, boosting **user engagement by 60%** and reducing **solution errors by 40%** through enhanced visualization and conflict resolution.
- Optimized performance by leveraging **memorization** and reducing unnecessary re-renders, resulting in a **30% faster execution time** compared to the initial version.

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, SQL, JavaScript, HTML/CSS

Data Platforms: MS SQL ,MongoDB ,Oracle Database

Developer Tools: Git, GitHub VS Code

Libraries: Pandas, NumPy, Matplotlib

Others: Innovative , Project Management, Leadership, Teamwork, Public Speaking

CODING PLATFORMS

- **LeetCode**: 1700 rating (Top 15% globally) 🏆
- **GeeksforGeeks**: Rating: 1800 (250+ questions solved) 🏆
- **CodeChef**: 1600 rating (200+ challenges solved, global ranking) 🏆
- **CodeForces**: Rating: 1150 (100+ problems solved, global contest rank) 🏆

CERTIFICATIONS

LinkedIn Learning: 🔗

- Data Structures, Object-Oriented Design, Flutter Essential Training
- HTML and CSS, JavaScript Essential Training, JavaScript Developer