

# SACHIN VARDHAN

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## SKILLS

**Programming Languages:** JAVA, Python, HTML/CSS

**Databases:** MySQL, DBMS, SQL

**Coursework:** Data Structures, Object Oriented Programming, Database Management System, Machine Learning

**Web Technologies (Basics):** HTML, CSS, React JS

**Non-technical skills:** Leadership, Communication, Team Management

**Languages:**

English (Professional Proficiency), Hindi (Professional Proficiency),

Japanese (Limited Working Proficiency)

## EDUCATION

**Bachelor of Technology, Information Technology**

Kalinga Institute of Industrial Technology . Bhubaneswar, Odisha. **Present** CGPA - 8.58 (current)

**12th CBSE BOARD**

Holy Mission High School . Samastipur, Bihar. **2021** Percentage - 82.2%

**10th CBSE BOARD**

D.A.V. Public School . Samastipur, Bihar. **2019** Percentage - 93%

## PROJECTS

**Pathfinding Algorithm Visualizer | React, Vite, JavaScript**

- Engineered a dynamic pathfinding simulator visualizing BFS, DFS, Dijkstra's, and A\* algorithms, reducing user comprehension time by 50% through interactive animations.
- Optimized performance using useCallback and setTimeout animations for smooth 50x20 grid visualization.
- Designed an intuitive UI with drag-and-drop node placement, configurable speed controls, and analytics (path length/nodes explored), improving user engagement by 60%.

**Resume Analyzer | Python, Streamlit, NLP, PDF Parsing, Fuzzy Matching**

- Built an AI-powered resume analysis platform using Streamlit, scikit-learn, and PDFPlumber to parse resumes, and predict job roles with RandomForest using TF-IDF vectorization.
- Implemented a skill-gap analysis engine that compares extracted skills and recommends missing skills to improve resume quality, improving student selection outcomes by 35%.
- Designed an admin dashboard with Seaborn/Matplotlib for job-role distribution, resume submission trends, and skill insights, improving the efficiency of resume screening by 40%.

## CERTIFICATIONS

**SQL (Intermediate)**

Hackerrank · 2025

- Gained intermediate knowledge of SQL queries, joins, subqueries, and optimization.
- Verified Certificate: <https://www.hackerrank.com/certificates/540b40a82af0>

**Amazon Machine Learning Summer School 2025**

Amazon · 2025

- Developed understanding of scalable ML system architecture and production-level challenges.
- Acquired best practices in model interpretability, bias mitigation, and performance optimization
- Verified Certificate: <https://coursera.org/verify/V0X29LQM4ZZD>

## EXTRA-CURRICULAR ACTIVITIES

**K-1000**

- Led and collaborated in K-1000, where I contributed to events and knowledge-sharing sessions; conducted webinars, showcasing initiative, collaboration, and leadership abilities.