



Samarth Sharma

Bachelor of Technology
in Computer Science and Engineering
Indian Institute Of Technology, Ropar

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EDUCATION

Degree	Institute/Board	CGPA/%	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	5.83 (Till 9th Sem)	2020-2025 (Extended)
Senior Secondary	D.C. Memorial H.S. School / M.P. Board	89%	2020
Secondary	St. Arnold's H.S. School / CBSE	8.6	2018

EXPERIENCE

- Data Analyst Intern** Jun 2024 – Oct 2024
Edulyt India Remote
 - Analyzed customer spending and repayment trends using large real-world datasets.
 - Used Python (Pandas, NumPy) for data preprocessing and manipulation.
 - Created Excel reports to visualize key findings (e.g., top spenders, age-based segments).
 - Provided actionable financial strategies based on profit and interest-rate analysis.
- JavaScript Developer Intern** Aug 2023 – Oct 2023
Logical Soft Tech Private Limited Remote
 - Developed and maintained web application features using JavaScript and Node.js.
 - Collaborated with a remote team to enhance functionality and debug existing modules.
 - Optimized back-end APIs for performance and scalability.

PROJECTS

- LearnAI – AI Awareness and Education Website** Jan 2025 – Apr 2025
Academic Project / IIT Ropar Live Site GitHub
 - Developed a beginner-friendly website to introduce AI to first-time users like students, clerks, etc.
 - Used ReactJS for frontend and NodeJS for backend to create an intuitive and responsive UI.
 - Implemented an interactive tool showcase, a basic tutorial page, and a simple navigation system.
- Plagiarism Detection Using Trie and N-Gram Analysis** Oct 2024 – Nov 2024
Academic Project / IIT Ropar GitHub
 - Developed a plagiarism detection system to identify similarities between text documents by analyzing n-grams.
 - Implemented a Trie (prefix tree) for efficient storage and retrieval of phrases.
 - Cleaned and stemmed input files, excluded stopwords, and handled stemming exceptions to ensure accuracy.
 - Optimized for time/space efficiency to handle large datasets.
- Customer Spending Analysis and Insights using Python** Jun 2024 – Oct 2024
Internship Project / Edulyt India
 - Analyzed Customer Acquisition, Spend, and Repayment data to discover customer behavior patterns.
 - Generated monthly profit statistics and identified profitable customer segments.
 - Provided data-driven insights for strategic financial decisions.
- Railway Reservation System** Oct 2022 – Nov 2022
CS-301 / Dr. Viswanath Gunturi
 - Built a basic railway ticket booking system using SQL and C++ for back-end functionalities.
- Quine-McCluskey Solver** Oct 2021 – Nov 2021
CS-203 / Dr. Neeraj Goel GitHub
 - Developed a C program to minimize boolean functions using the Quine-McCluskey method.
 - Practiced modular design and tested using various example input cases.

TECHNICAL SKILLS

- Programming Languages:** C/C++, Java, JavaScript, Python, SQL
- Tools/Frameworks:** Node.js, Jupyter Notebook, Microsoft Excel, Git
- Concepts:** Data Structures, Algorithm Design, Text Processing, File Handling, Data Analysis, Machine Learning Basics
- Other:** Competitive Programming, Problem Solving, Analytical Skills

KEY COURSES TAKEN

- **Core CSE:** Algorithms & Data Structures, Operating Systems, Computer Graphics, Computer Architecture
- **Others:** Digital Logic Design, Tinkering Lab, Engineering Drawing, Professional Ethics, NSS

MISCELLANEOUS

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| • JEE Mains ,99.65 Percentile | <i>2020</i> |
| • JEE Advanced ,All India Rank 1735 | <i>2020</i> |
| • Specialist in Codeforces ,Graziton (Rating: 1464) | <i>2022</i> |