



# Aman Adatia

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

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## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	9.04 (Till 6th Sem)	2020-2024
Senior Secondary	Maharashtra HSC	94.77%	2020
Secondary	JBCN International School - IGCSE	84%	2018

## EXPERIENCE

- Google** May 2023 - July 2023  
Software Engineering Intern, gStore  
Bangalore, India
  - Worked on improving workflows related to content validations on **gStore Content Management System (gCMS)**.
  - Created generic text diffing utility to highlight mismatches between two texts and show side-by-side diffs on the UI.
  - Optimized bulk validation runs and implemented a batch job to trigger validations periodically.
  - Tech Stack: Java, Angular, Typescript
- Department of Bio-Medical Engineering (DBME), IIT Ropar** May 2022 - July 2022  
Research Internship under Dr. Ashish Kumar Sahani  
IIT Ropar
  - Predicting Hypertension using Physiological Parameters** in collaboration with Hero DMC Heart Institute.
  - Collected clinical dataset of 4500 patients from DMC Hospital, Ludhiana. Used physiological (non-blood) parameters to predict hypertension using Python. Obtained an overall accuracy of 76 %.
  - Written a conference paper for the same; accepted for 3rd International Conference on Frontiers in Computing and Systems (COMSYS-2022). [Conference Paper, Github]

## PROJECTS

- Java Source Code Analyzer** April 2023  
Software Engineering Project - Java, ReactJs, NodeJs, Firebase, Python, Ajc, Bytecode weaving  
Github, Demo
  - Provides insightful analysis of one's application usage statistics so bottlenecks can be identified and performance can be optimized. Developers can identify critical sections of code and improve the efficiency of their applications by using the tool.
  - This tool takes a jar file and instruments it with the AspectJ code. The woven code collects and sends the monitoring data to the backend server, which analyzes the data and presents insightful visualizations for effective source code analysis.
- University Carpool App** April 2023  
Development Engineering Project - Flutter, Firebase  
PlayStore
  - This app assists members of IIT Ropar in pooling together and sharing rides. They can connect easily with each other and plan their rides to a common destination in a cost-friendly way using our app.
  - This app is created using Flutter and Firebase. It is currently hosted on PlayStore.
- Railway Reservation System** November 2022  
Database Course Project - Java ConnectionPooling, Multithreading  
Github
  - Implented backend of Railway Reservation System using Java & PostgreSQL. Functionalities include adding trains & booking tickets using a client-server model. It is able to handle 5000 queries (by multiple clients at the same time) per second.
  - There is a train recommender system that recommends both direct and indirect trains (with one intermediate station) between the source and destination station.

## TECHNICAL SKILLS

- Programming Languages:** Java, Python, Typescript, Javascript, C++, C, Perl, Dart
- Development:** Angular, NodeJS, SQL, Flutter, Firebase, HTML, CSS, Git
- Others:** GitHub, Linux, Latex, Verilog, VS Code, Excel, MATLAB

## KEY COURSES TAKEN

- CSE & Maths:** Software Engineering, Data Structures & Algorithm, Database Management System, Operating System, Computer Networks, Theory of Computation, Computer Vision, Analysis and Design of Algorithms, Discrete Mathematics, Computer Architecture, Programming Paradigms & Pragmatics, Probability & Statistics, Linear Algebra, Differential Equations, Calculus
- Others:** Digital Logic Design, Signals & Systems, Basic Electronics, Economics, Professional Ethics

## POSITIONS OF RESPONSIBILITY

- Student Representative**, Career Development & Placement Cell, IIT Ropar Dec. 2021 - Jan. 2023
- Coordinator**, Robotics Club, IIT Ropar Nov. 2021 - Aug. 2022
- Student Mentor**, ISMP, IIT Ropar Nov. 2021 - Jan. 2022

## MISCELLANEOUS

- Codeforces max rating: 1511 (Specialist)**, [LINK](#) 2022
- Active on programming sites**, Leetcode [LINK](#) and GeeksforGeeks [LINK](#) 2022
- Google Kickstart**, rank 2539 (Round A) 2022
- ICPC Asia Gwalior-Pune Regional Contest**, rank 346 2020
- Branch Change**, from EE to CSE. Also awarded 7% merit price and scholarship for AY 2020-21. 2021
- JEE**, Mains: 99.396 %ile, Advanced: 4191 Rank (Among top 1% candidates) 2020