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CodeForces
Codechef
LinkedIn

# **EDUCATION**

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B. Tech.	Indian Institute of Technology, Jodhpur	8.40 (Current)	2021-Present
Senior Secondary	CBSE Board	95.8%	2019-2021
Secondary	CBSE Board	94.4%	2017-2019

#### EXPERIENCE

### • OTSUKA HOLDINGS CO., LTD.

May 2024 - July 2024

Software Developer Intern

Tokyo, Japan

- Developed an Intellectual Patents Landscaping webapp using Flask and PostgreSQL, integrating Generative AI
  for comprehensive data analysis of the Google Patents Dataset (119 million+ records).
- Integrated Large Language Model of Cohere for Advanced Data Analysis to expand company business opportunities
  and implemented strategies like Blue Ocean Strategy on patents fields.

### Projects

WEBGEN

Dec. 2021 - July. 2022

Engineering Design

GitHub

- Collaborated in a team to build a web application that enables users to create and host **personalized websites** effortlessly by **filling out a form**.
- Designed and implemented an advanced backend architecture, including file generation and optimized database queries, leveraging NodeJS, Express, and React.

• Movie Recommendation

April 2023 - May 2023

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Pattern Recognition and Machine Learning

GitHub

- Made a model which recommends movies on the basis of genres, ratings as well as users based on the MovieLens
   (131k+ records) dataset. Further worked on Content Based Filtering of the movies.
- Worked on Collaborative Filtering as well applied Clustering on users to give them better recommendations.

NYAI SANGH

Jan 2023 - Feb 2023

Inter IIT Tech Meet 13.0

GitHub

- Formulated a prototype/solution for PS **Transforming the Informal Sector into the Formal Sector** (Grad Capital).
- Created backend for the solution including **Speech to Text Generation**, **Information Extraction**, **Machine Learning Model Integration with webapp** and **File Creation** on **Django** including basic **CRUD** operations.

# SKILLS

- Technical: NodeJS, ReactJS, Express, C++, C, C#, HTML, CSS, PHP, Python, Django, Open CV, JavaScript, Dart, Flask, Flutter, SQL, Unity and Data Science.
- Subjects: Data Structures and Algorithms (A), Pattern Recognition and Machine Learning (A), Probability Statistics and Stochastic Processes (A), Linear Algebra (A), Micro Economics (A-), Computer Architecture
- Non Technical: Leadership, Communication, Innovative, Open Minded, Self-Motivated, and Collaborative

#### ACHIEVEMENTS

• Rank 7, (among 85 students) in the Department of Electrical.		
• Grade A, in both Data Structures and Algorithms as well as Pattern Recognition and Machine Learning		
• Rank 42, among 100000 students participating in NTSE Stage-1 organized by NCERT	2019	
• Rank 11, in International Mathematics Olympiad by SOF	2021	
• Max. CodeForces Rating, 1475 (Specialist)		
• Max. Codechef Rating, 1810 (4*)		
• Inter IIT Tech Meet, Participated in Tech Meet 13.0 held at IIT-Kanpur	2023	
• Rank 244, in Starters 97 Division 3 (Rated) organized on Codechef	2024	
• Rank 364, in Starters 153 organized on Codechef	2024	

## EXTRA CURRICULAR & POSITIONS OF RESPONSIBILITY

• Mentor, Programming Club, Indian Institute of Technology, Jodhpur

Aug. 2023 - Jul. 2024

- Conducted many **Programming Contests** and various **Problem Solving and Programming** sessions (10+).
- Teaching Assistant, Department of Computer Science, IITJ

Aug. 2024 - Dec. 2024

 Supported more than 20+ students in their data structures and algorithms coursework, guiding them in both theoretical understanding and hands-on project development.