

ANURAG AMCHI

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EDUCATION

Indian Institute of Technology Ropar Bachelor of Technology in Mathematics and Computing Key Courses: Data Structures and Algorithms, Data Science, Machine Learning, Optimization Techniques, Financial Derivatives pricing, Analysis and Design of Algorithms, Theory of Computation, Computational Algebra, Digital Logic and Design, Discrete Math, Linear Algebra, Calculus.	2022 - 2026 Rupnagar, Punjab
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EXPERIENCE

Borde Inc. USA Machine Learning Intern Python, Bash, Azure, Git, Dagster	September 2023 - March 2024 Certificate Remote
<ul style="list-style-type: none">Helped the team to automate annotations and segmentation to improve the accuracy of various assigned classes.Trained efficient models using Yolo-v5 on datasets containing more than 150k images of almonds.	

PROJECTS

Real Time Chat App Socket.IO, MongoDB, Express, React, Node.js, JWT Authentication	September 2024 - October 2024 Live Link GitHub
<ul style="list-style-type: none">Built a client-server web application that enables users to communicate through real-time messaging.Used REST APIs and WebSockets to ensure scalable and efficient real-time communication.Used Socket.IO for managing WebSocket connections.	
Finance Tracker MongoDB, Express, React, Node.js, JWT Authentication	June 2024 - July 2024 Live Link GitHub
<ul style="list-style-type: none">Made a full stack project to keep detailed track of finances with email reminders and visual analytics.Implemented JWT authentication for secure user access and data protection.Enabled expense tracking, budgeting, and interactive data visualization features.	
Collision Detection using Quadtree HTML, CSS, JavaScript	May 2024 - June 2024 Live Link GitHub
<ul style="list-style-type: none">Made a fully functional visual website about the Quadtree data structure with features like construction, insertion, searching, deletion, query searching and collision detection for better analysis.Implemented collision detection using the Quadtree data structure, reducing the time complexity from traditional $O(n^2)$ to $O(n \log(n))$.Increased the performance frame rate from 5 fps to 40 fps during collision of 10k points.	
Movie Recommender Python, Machine Learning	May 2024 GitHub
<ul style="list-style-type: none">Built a recommender system to recommend 5 movies when a user inputs a movie or rates several movies.Combined collaborative filtering and content based algorithm on a dataset containing over 10k movies rated by over 1k users with total 100k ratings.	

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, MATLAB, HTML, CSS

Frameworks/Libraries: React, Express.js, Node.js, Jupyter, TensorFlow, Pandas, Numpy, Matplotlib.

Database/OS/Tools: MongoDB, Git, Linux.

POSITION OF RESPONSIBILITY

Guitar Coordinator , Music Club, IIT Ropar	June 2023 - June 2024
Event Management , Zeitgeist, Techno-Cultural Fest	March 2023

MISCELLANEOUS

Rank 542 , ICPC Prelims	2023
Codeforces , Max Rating: 1407(Specialist)	2023
CodeChef , Max Rating: 1685(3 star rating)	2023
Inter IIT Cult-Meet 6.0 , Secured 6th position in Pair-on-stage competition among 23 IITs.	2023
NTSE Scholar , Granted scholarship to top 2000 students of stage 2 by NCERT every year till their study period.	2020