

# Rudra Pratap Singh

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## Summary

AI & Data Science undergraduate at IIIT Raichur with strong foundations in data structures, machine learning, and full-stack mobile development. Experienced in building scalable Flutter applications, real-time systems using Firebase, and ML-driven solutions with Python. Proven leadership through academic and placement roles, with a track record of delivering high-impact projects and competitive programming performance.

## Technical Skills

**Programming Languages:** C, C++, Python, Dart, JavaScript

**Development:** Flutter, Android, Firebase (Auth, Firestore, RTDB), Supabase, Node.js, Express.js, MongoDB

**REST APIs**

, AI/ML: Machine Learning, Data Analysis, NumPy, Pandas, SciPy, Matplotlib

**CS Fundamentals:** Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks

**Tools:** Git, GitHub, VS Code

**Coursework:** Data Warehousing and Data Mining, Artificial Intelligence, Machine Learning and Data Science, Soft Computing and Evolutionary AI, Digital Image Processing

## Experience

### Placement Cell Coordinator

Jan 2025 – Present

- Coordinated with 15+ recruiters; reduced response time by 25% through standardized communication workflow.

### Teaching Assistant — Introduction to Programming (C)

Aug 2025 – Dec 2025

Indian Institute of Information Technology, Raichur

- Conduct weekly lab sessions and debugging clinics for 100+ first-year students.

### Academic Secretary — Student Affairs Council

Aug 2024 – Oct 2025

Indian Institute of Information Technology, Raichur

Certificate

- Led student initiatives impacting 600+ students; revived Aurora Club achieving 70%+ participation.
- Authored policy proposals and initiative reports to streamline academic and extracurricular processes.

## Education

### Indian Institute of Information Technology, Raichur

Bachelor of Technology in Artificial Intelligence and Data Science

CGPA: 7.5/10.0 Raichur, Karnataka

Aug 2023 – May 2027

## Projects

### ArenaFlow — Tournament Management App

[Github](#) Aug – Nov 2024

- Developed automated tournament management app with Flutter + Firebase supporting 5 sports and 3 tournament formats; reduced manual scheduling by 80%.
- Built real-time match tracking system with live scoring, interactive bracket visualization, and dynamic leaderboards; deployed in 3 college tournaments managing 100+ players.
- Engineered comprehensive player/team management module with statistics tracking, position-based categorization, and Firebase Firestore sync; streamlined roster management and match coordination.

### Content-Based Movie Recommender

[GitHub](#) Jan – Apr 2025

- Developed NLP-based movie recommendation system using CountVectorizer and cosine similarity on TMDB 5000 dataset; extracted features from genres, keywords, cast, crew, and overview for content-based filtering.
- Engineered data preprocessing pipeline merging 2 datasets with 5000+ entries; processed nested JSON fields and applied text vectorization achieving accurate similarity matching.
- Built interactive Streamlit web interface allowing users to select from 5000+ movies and receive top 5 recommendations instantly; serialized model using Pickle for efficient deployment.

## Achievements & Activities

- Secured under 5000 global rank in LeetCode Biweekly Contest.

Solved 300+ DSA problems across competitive programming platforms (LeetCode: 1450+ rating, GeeksforGeeks: 450+ score, ).

- Completed Flutter & Dart - The Complete Guide certification from Udemy (2024) .

[Certificate Link](#)

Selected for Smart India Hackathon 2024 among nationwide college teams.

- Elected Academic Secretary for Student Affairs Council (2024–25), IIIT Raichur.