

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 20 25 – 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

CGPA: 7.5/10.0 Raichur, Karnataka

Bachelor of Technology in Artificial Intelligence and Data Science

Aug 2023 – May 2027

Projects

ArenaFlow — Tournament Management App | Flutter, Firebase

[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 | Python, scikit-learn

[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.