Amandeep Singh

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EDUCATION

CHANDIGARH UNIVERSITY
B.E in Computer Science
August 2023 - June 2027
Mohali, Punjab
Cumulative GPA: 8.78 / 10.0

NATIONAL DEFENCE ACADEMY
Indian Army Officer Cadet
December 2022 - June 2023
Khadakwasla, Pune

LINKS

Github: github.com/singh-aman23
LeetCode: leetcode.com/singh-aman23
LinkedIn: linkedin.com/in/singh-aman23

CERTIFICATIONS
• Microsoft Azure Data Fundamentals (DP-900) – Score 895/1000
• AI for Entrepreneurship – Intel India
• Data Visualization with Python – IBM (Coursera)

SKILLS

PROGRAMMING
Programming Languages:
Java, JavaScript, C/C++, Python
Web Technologies :
HTML, CSS, React.js, Next.js, Node.js, Express.js, RESTful APIs
Databases:
MongoDB, MySQL
Machine Learning and Data:
scikit-learn, pandas, NumPy, Regression Models
Tools:
Git, GitHub, Postman, JWT, CI/CD (Vercel), Streamlit

COURSEWORK
Data Structures and Algorithms
Object-Oriented Programming
Operating Systems
Database Management Systems
Computer Networks
Machine Learning

PROFESSIONAL SUMMARY

Computer Science undergraduate with a disciplined mindset shaped by experience as an NDA cadet. Passionate about competitive programming, data structures, and algorithmic thinking, with consistent participation on platforms like Codeforces and LeetCode. Skilled in problem-solving, full-stack development, and building efficient solutions. Brings a team-oriented mindset and resilience to both collaborative engineering projects and high-pressure coding challenges.

PROJECTS

CPREDICT | Python, Streamlit, scikit-learn, pandas, joblib
AI-based web app that predicts Codeforces rating change using real contest data and ML regression
Live Demo | Github
• Developed an **AI-powered web app** that predicts Codeforces rating changes with **84.3% R² score**.
• Collected and processed data from **700+ contests**, analyzing over **30,000 user rating** records via Codeforces **public REST API**.
• Trained a **Random Forest Regressor** with MAE ≈ 20.28 and RMSE ≈ 29.82, ensuring low prediction error.
• Deployed using **Streamlit Cloud** with **<100ms model response time** and **>99.9% uptime**.
• Demonstrated a complete **machine learning pipeline**: data scraping, feature engineering, model training, evaluation, and deployment.

RENTBUDY | React.js, Next.js (API routes), MongoDB, Vercel
Roommate-finding platform with real-time listings and authentication features.
Live Demo | Github
• Built a **full-stack roommate-finder platform** allowing users to post listings and connect with potential roommates in real time.
• Designed a **responsive UI** with React.js, optimized for both mobile and desktop devices.
• Implemented **JWT-based authentication** with secure route handling and session management.
• Developed a **RESTful API** using **Next.js** and **MongoDB** for backend logic and data persistence.
• Deployed using **Vercel CI/CD**, achieving **99.9% uptime** and **<100ms average response time**.
• Used by over **50+ test users**, with architecture designed to scale for **1,000+ concurrent users**.

ACHIEVEMENTS

• Scored **895/1000** in Microsoft Certified: Azure Data Fundamentals (DP-900) Exam

• Secured **All India Rank 75** in **NDA/NA-I (2022)**, qualified through UPSC and Services Selection Board

• **Top 65 out of 600+ teams** at Tekathon 3.0 – Smart India Hackathon qualifier