Aayansh Tarafdar

Software Engineer — Machine Learning Engineer — Competitive Programmer

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Coding Profiles: 4* CodeChef (Global Rank 27) — Specialist Codeforces (1458, Top 7%) — Newbie LeetCode (1601, Top 22.94%)

EDUCATION

Bennett University, Noida, India	2023 – 2027
Bachelor of Technology in Computer Science Engineering	*CGPA 6.82*

Relevant Coursework
Data Structures, OOP, DBMS, Digital Design, Machine Learning

Ashok Public School, India	2023
Senior Secondary (CBSE) – PCM	

TECHNICAL SKILLS

Languages: C++, Java, Python, JavaScript
Frameworks/Tools: HTML5, CSS, React, Bootstrap, MongoDB, MySQL, Git, Figma, Google Firebase
Machine Learning: Pandas, Numpy, Scikit-learn, TensorFlow, Keras, OpenCV, Matplotlib
ML Concepts: Statistical Machine Learning, Data Preprocessing, Data Analysis, Data Visualization, Data Cleaning, Feature Scaling
Web Development: HTML5, CSS, JavaScript, React Js, Figma

EXPERIENCE

Tata Group – Data & AI Engineering Internship	Aug 2025
Data Analytics & AI Strategy	*Remote*

- Completed a simulation involving AI-powered data analytics and strategy development for Tata iQ.
- Conducted EDA using GenAI tools to assess data quality, identify risk indicators, and prepare insights for predictive modeling.
- Designed an AI-driven collections strategy incorporating agentic AI, automation, ethical AI principles, and compliance.

PROJECTS

LocalEyes (Repo — Web)
- Developed a responsive web application using HTML, CSS, and JavaScript to showcase local businesses and attractions.
- Integrated a JSON-based database to dynamically render content, enabling easy updates and scalability.
- Utilized Figma for UI/UX design, creating clean and user-friendly interfaces before implementation.
- Added features like search filters and category-based browsing, enhancing user engagement and navigation efficiency.

Rock Vs Mine Prediction (Repo — Web)
- Built a Logistic Regression model to classify sonar signals as rock vs. mine using a 60-feature dataset, achieving **76%** test accuracy.
- Performed end-to-end ML pipeline: data exploration, preprocessing, stratified train-test split, model training, and evaluation.
- Developed a prediction interface to classify new sonar readings in real time using a 60-dimensional input vector.

AI Image Colorizer (Repo — Web)
- Built a machine learning model to automatically colorize black and white images using AI.
- Used deep learning techniques and CNN architectures to learn color mappings from large image datasets.
- Preprocessed grayscale image data and trained the model using Python, NumPy, TensorFlow/Keras.

ACHIEVEMENTS

- **4 STAR CodeChef: 1844 (Best Rating, Top 2.37% Globally**, Best Global Rank: 27)   Profile link
- **Specialist - 1458 (Best) rating on Codeforces** (Top 7% Globally)   Profile link
- LeetCode Rating: 1656 (Top 16.66%), **solved 400+ problems** in DP, Graphs, Data Structures   Profile link
- **Solved 900+ DSA** and logical programming problems across platforms   Compiled Profile link
- Secured **Rank 4 among 640 teams** in internal SIH Hackathon 2025   Post link
- 5* in C++ and Python at Hackerrank   Profile Link
- Achieved Global Peak Rank of 2022 on Codolio based on overall performance