Aditya Maharshi

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Education

National Institute of Technology, Raipur   *Final year , (Expected May 2026)*
Bachelor of Technology (BioTechnology) CPI : 8.7/10   *Raipur, CG*
- **Relevant Coursework:** , Advanced Mathematics (Calculus) , OOPS , XML and Programming Fundamentals , Data Structures and Algorithms (Java), Data Science and Statistics , BioInformatics and DBMS

Experience

Team Shaurya   *July 2023 - May 2025*
SDE Intern   *Raipur, CG*
- Completed and hosted live websites using Node.js and Express, and co-ordinated a team of 9
- Led a cross-functional team in implementing a new feature using React and Express, resulting in a cleaner and user-friendly design to increase user engagement

Water Treatment Plant   *May 10th - July 10th*
Summer Internship   *2025, Bhatagaon, Raipur*
- Gained **hands-on experience in water treatment process, data analysis**, and teamwork
- Evaluated plant performance, **achieving a 98% reduction in contaminants**

Projects

1.Stock Price Prediction Web App *[here]* | *Machine Learning — Python, TensorFlow, Streamlit, GitHub*
- Developed a **Recurrent Neural Network (LSTM) model** for time-series forecasting to predict stock prices using historical market data.
- Implemented **data preprocessing (MinMax scaling, feature engineering) and technical indicators (RSI, MACD) for enhanced predictive accuracy.**
- Built an interactive dashboard using Streamlit, enabling **real-time training and price prediction** for any stock ticker.
- Tech Stack: **Python, TensorFlow/Keras, NumPy, Pandas, Matplotlib, Scikit-learn, YFinance, Streamlit, Git**

2.Pixels — Interactive Collage *[here]* | *Full-Stack — MongoDB, React.js, Express.js, Node.js, TypeScript, Vercel, Render, Chakra*
- Designed and developed a collaborative board where users can **upload, view, and edit individual tiles in real time**
- **Implemented backend APIs for image compression , upload and retrieval, with user and timestamp metadata**
- Managed stateful UI with Chakra UI for **responsiveness** and deployed full project live on Vercel

3.Image Caption Generator | *Computer Vision + NLP*
- Build a deep learning model that takes an image and generates a descriptive caption.
- **Tech: PyTorch, CNN, RNN/LSTM, Attention Mechanism, COCO dataset.**
- Combines **CNN (for image feature extraction) and LSTM/Transformer** (for language generation) – shows multi-domain expertise.

#All Live Projects *[here]* | *Full-Stack* | *Machine Learning* | *Python* | *FastAPI* | *MERN* | *Java*

Technical skills

AI/ML: TensorFlow/Keras , Model , YFinance , NumPy , Pandas , Data Preprocessing , Streamlit , PyTorch
Languages: Java , Python , JavaScript , TypeScript
Frontend: React , Angular , Html/css
Backend: Node.js , Express.js , Firebase
Data Skills: Matplotlib , Seaborn , SQL/MySQL, PostgreSQL , Excel

Achievements

- **Leetcode 1511 contest rating, 475+ problems solved since** *2024* *[Here]*
- **EY—Techathon** *2024* *[Here]*
- Class Representative (CR), Biotechnology
- Led a team of 11 to create a short film (16 minutes) on the values and purpose of life - *2023*
- Worked in a team of 9 as Web Developer in Team SHAURYA