Dev Jain

Bachelor of Technology
in Civil Engineering
Indian Institute Of Technology, Ropar

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GitHub | **Personal Portfolio**
Linkedin

EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	8.19 (Till 4th Sem)	2023-2025
Senior Secondary	Central Board of Secondary Education	93%	2023
Secondary	Central Board of Secondary Education	93.2%	2021

PROJECTS

- **CFS (Completely Fair Scheduler) - Linux Scheduler** *October 2023 - November 2023*
  Data Structures and Algorithms **GitHub**
  - Implemented a Linux-based Completely Fair Scheduler using **Red-Black Trees**, achieving **15–20% improved task fairness** over **round-robin** in custom simulations (based on CPU time variance).
  - Explained how **nice values** influence the priority of a task in the Linux scheduler, enabling **fair CPU time distribution** among running processes.

- **MovieMind - Movie Recommendation System** *May 2025 - June 2025*
  Machine Learning , NLP **Live Site   GitHub**
  - Achieved **90%+ Top-5 recommendation accuracy** on a curated dataset of 5,000+ movies using content-based filtering.
  - Users can search movies and view detailed info like **title, director, rating, genre, and star cast** through an interactive UI.
  - Analyzed 100,000+ TMDb reviews using **NLP sentiment analysis**, boosting result relevance by **20%**.
  - Developed with **Streamlit**, using **scikit-learn**, **NLTK**, **TMDb API**, and **Pandas** for data processing and visualization.

- **Planet Fitness - Gym Fitness App** *May 2025 – Jun 2025*
  Web Development Project **Live Site   GitHub**
  - Developed a dynamic fitness web app using **React** and **TailwindCSS** that allows users to select muscle groups, intensity levels, and training preferences.
  - Served personalized workout plans across **15+ muscle groups** and **100+ exercise templates**.
  - Implemented smooth UI interactions and fast response using effective **state management** and **conditional rendering**.

- **Stock Market Prediction** *June 2025 - Present*
  Deep Learning project **Live Site   Github**
  - Built a **Stacked LSTM model** for time-series forecasting that achieved **92% directional accuracy** in predicting stock price trends and a **Root Mean Square Error (RMSE)** of **0.89** on historical NSE stock data.
  - Performed **data preprocessing** and **feature engineering** on historical stock data to boost accuracy.
  - Utilized **Python**, **TensorFlow**, and **Keras** for model building, training, and visualization.

TECHNICAL SKILLS

- **Programming Languages**: C/C++, Python, HTML, CSS, Javascript, React JS, Tailwindcss, SQL
- **Machine Learning**: Sklearn, Numpy, Pandas, Matplotlib, Pytorch, TensorFlow, Keras, NLTK, Google Cloud
- **Developer Tools**: Github, LATEX, TinkerCad
- **Soft Skills**: Problem Solving, Critical Thinking, Management Skills, Leadership

KEY COURSES TAKEN

- **CSE & Maths**: Introduction to Computing and Data Structures, Calculus, Linear Algebra And Transforms, Differential Equations, Probability And Statistics
- **Others**: Basic Electronics, Economics, Professional English, Introduction to Electrical Engineering, Tinkering Lab

POSITIONS OF RESPONSIBILITY

- **Sponsorship Head, Advitiya'26, IIT Ropar**, Leading sponsor acquisition and partnership strategies. *June'25 - present*
- **Co-Head, Event Management, Aarohan'25** ,Led event logistics and team accommodations. *Feb'25 - Apr'25*
- **Event Head, Zietgiest'24**, Led the planning and execution of two events for Alpha Production *June'24 - Nov'24*

ACHIEVEMENTS

- Selected among the **Top 16** finalists in the The Integral Cup—a national-level Integration Bee competition. *2025*
- **Codeforces:** Codeforces rating 1430 (Specialist)
  Secured **694th** rank globally in a Codeforces contest. **Codeforces**
- Solved more than **450 Questions** across platforms. **GeeksForGeeks   LeetCode**
- Secured **1st position** in Blueprint Battles at Advitiya'25 *2025*