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

- **PagePilot - PDF Chat Bot** — *June 2025 – Present*
  Artificial Intelligence, NLP, Deep Learning — **Live Site   GitHub**

  – Developed a **Retrieval-Augmented Generation (RAG)** chatbot that answers questions from **uploaded PDF documents**.
  – Built with a **modular microservice architecture** using a **FastAPI** backend and **Streamlit** frontend.
  – Integrated **ChromaDB** for storing **document embeddings** and used **Groq's LLaMA3** for response generation.
  – Designed components for **PDF parsing**, **embedding generation**, and **query handling**, ensuring scalability and modularity.

- **CFS (Completely Fair Scheduler) - Linux Scheduler** — *October 2024 - November 2024*
  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** — *April 2025 - May 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.

- **Stock Market Prediction** — *June 2025 - July 2025*
  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*
- **Event Head, Zietgiest'24**, Led the planning and execution of two events for Alpha Production — *June'24 - Nov'24*
- **Co-Head, Event Management, Aarohan'25** ,Led event logistics and team accommodations. — *Feb'25 - Apr'25*

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 **694**[th] 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*