

ANOOP TRIPATHI

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Education

Dr. B R Ambedkar National Institute of Technology Jalandhar

Aug 2024 – Present

Bachelor of Technology in Information Technology — CGPA: 8.09

Jalandhar, Punjab

Second Year(3rd Semester)

Projects

BingeBuddy — *Demo Github*

Tech stack : Python, Pandas, NumPy, scikit-learn, Streamlit, Pickle, ast, Jupyter Notebook, Kaggle

- Built a Movie Recommender System using AI/ML-based concepts like Text Vectorization and Similarity search to suggest movies related to a user-selected title.
- Designed a lightweight end-to-end Pipeline for data preprocessing, feature representation, and Top-N recommendation ranking.
- Deployed the solution as an interactive Streamlit web app for real-time recommendations.

StudyOne — *Github*

Tech stack : React, Node.js, Express, MongoDB, Tailwind CSS, Chrome Extension APIs, JWT

- Designed and developed a full-stack learning management platform for organizing courses, notes, flashcards, and study materials with progress and deadline tracking.
- Built a responsive React frontend with Tailwind CSS and a secure Node.js/Express REST API featuring JWT authentication, optimized MongoDB queries, and a Chrome extension for real-time bookmarking and synchronization.

Extracurriculars

Bharatiya Antariksh Hackathon 2025

July 2025

- Developed an AI-driven, end-to-end air quality monitoring system by integrating satellite AOD, ground-based PM2.5/PM10 data, and atmospheric reanalysis to estimate pollution in sensor-sparse regions.
- Designed a scalable architecture for pan-India pollution heatmaps, time-series analysis, and short-term forecasting, with insights visualized via a Streamlit-based interactive dashboard.

Smart India Hackathon(SIH) 2025

Sep 2025

- Proposed a digital disaster preparedness platform for educational institutions featuring gamified learning, virtual drills, region-specific alerts, and real-time communication.
- Designed a scalable system using a Flutter mobile app, Next.js/Express admin dashboard, and ML models (Random Forest, LSTM, CNN) leveraging ISRO, IMD, and CWC data for localized risk prediction and preparedness tracking.

Technical Skills

Programming Languages: C++, C, Python, JavaScript

AI/ML: Supervised & Unsupervised Learning, Feature Engineering, Machine Learning Algorithms, EDA, Scikit-learn, Matplotlib, Streamlit, NumPy, Pandas, Seaborn

Web Development: React.js, Next.js, Tailwind CSS

Databases & Tools: MongoDB, Git, GitHub

Core Concepts: Data Structures and Algorithms, OOP, DBMS, AI/ML