

AMAN YADAV

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in [amnyad05](#)

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EDUCATION

Indian Institute of Information Technology

B.Tech.- Computer Science and Engg. **CGPA - 7.28**

Dec. 2021 - Present

Una, Himachal Pradesh, India

COURSEWORK

- Data Structures, Algorithms & Analysis.
- Operating Systems
- Computer Networks
- Database Management System (DBMS)
- Machine Learning & Deep Learning
- Digital Image Processing

EXPERIENCE

IRDE, DRDO Ministry Of Defence

Dehradun, Uttarakhand

Machine Learning R&D Intern

Jan 2024 - Jun 2024

- Developed an efficient real-time drone detection algorithm with minimal resource usage.
- Analyzed and processed 40,000+ image samples. Collected and processed data, removing outliers and noise for trajectory analysis, detection and drone path prediction of drone.
- **Technologies:** Python, CNN, Computer Vision, Data Analysis, Motion Detection, Trajectory Analysis.

PROJECTS

Audio Analysis and Classification 🔗 | Python, Librosa, TensorFlow

July 2023-Dec 2023

- Analyzed and processed 100,000+ audio samples.
- Improved soundscape monitoring capabilities by 90%.
- **Technologies:** Python, Numpy, Pandas, Matplotlib, CNN, TensorFlow, Streamlit, Seaborn, Kaggle, Pytorch

Movie Genre Prediction 🔗 | Python, NLTK, Naive Bias Classifier

Oct 2023 - Nov 2023

- Movie Genre Prediction Project aimed to develop a predictive model using a dataset consisting of 54,000 movie entries. Achieved a 50% accuracy rate.
- Objective was to create a machine learning algorithm capable of predicting movie genres based on various features such as plot summaries, cast, crew, release year, and other metadata associated with the movies.
- **Technologies:** Python, Pandas, NLTK, Naive Bayes Classifier, Seaborn, Matplotlib, Numpy.

Fitflow MERN Stack Site 🔗 | MongoDB, Express.js, React.js, Node.js

Aug 2023 - Nov 2023

- Developed a comprehensive fitness tracking platform with real-time updates and personalized user dashboards for health tracking.
- Using cutting-edge technologies like (MongoDB, Express.js, React.js, Node.js) stack and powered by TypeScript, designed to revolutionize your health and wellness journey.
- **Technologies:** HTML, CSS, Typescript, Next.js, MongoDB, Express.js, React.js, Node.js.

TECHNICAL SKILLS

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

Frontend: HTML, CSS, Bootstrap, Tailwind, CSS, React.js.

Backend: NodeJS, ExpressJS

Database System: MySQL, MongoDB,

ML Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, PyTorch.

Technologies: Latex, Anaconda, Microsoft Office, GitHub, Git

POSITIONS OF RESPONSIBILITY

- **Council Head**, Zenith Sports Club IIITUNA

EXTRACURRICULAR

- Qualified for Semifinal in Flipkart Grid 5.0, a national-level hackathon focused on solving complex technology challenges. *(Certificate)*.
- Participated in 5th INTER IIIT SPORTS meet 2023 in Cricket Team to Represent the college. *(Certificate)*.
- Solved 250+ Problems on *LeetCode*.