Aman Yadav

⬈ PortFolio

Gorakhpur, Uttar Pradesh

📞 +91-8887719472 ✉ yadavaman150902@gmail.com in amnyad05 ⌨ amnyad17 ⬈ LeetCode ⬈ GFG

EDUCATION

Indian Institute of Information Technology   **Dec. 2021 - Present**

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

MyBlog | ReactJS, Appwrite, JavaScript   ⌨ **GitHub**   ⬈ **Live**

- Developed a blog creation platform featuring secure **Login**, **Signup**, and **Logout** functionality.
- Implemented a rich-text editor using **Tiny Editor** and an **Image Loader** for blog thumbnails.
- Created a seamless user experience with **multi-page routing** and modular design principles.
- **Technologies:** ReactJS, Appwrite, JavaScript, Tailwind CSS, TinyCloud, Redux.

Audio Analysis and Classification | Python, Librosa, TensorFlow   ⌨ **GitHub**

- Analyzed and processed over 100,000 audio samples to extract meaningful insights and patterns.
- Enhanced soundscape monitoring capabilities by 90% through advanced audio classification techniques.
- **Technologies:** Python, Librosa, Numpy, Pandas, Matplotlib, CNN, TensorFlow, Streamlit, Seaborn, Kaggle.

Fitflow MERN Stack Site | MongoDB, Express.js, React.js, Node.js   ⌨ **GitHub**

- Developed a comprehensive fitness tracking platform with real-time updates and personalized user dashboards for health tracking.
- Leveraged the **MERN stack** (MongoDB, Express.js, React.js, Node.js) with **TypeScript** to design an innovative health and wellness platform.
- **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 .*