Aman Kumar

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EDUCATION

Indraprastha Institute of Information Technology, Delhi (IIITD)

B.Tech Computer Science and Applied Maths   Dec 2020 — May 2024
                                                   CGPA - 8.34 (till 6th sem)

- Part of Development team at prestigious clubs like **Google** DSC and **E-cell**
- Taught 100+ students web development
- Helped in maintenance and development of projects

EXPERIENCE

Industrial

1. Full Stack Intern, MyWanderLust.in 🔗

May 2022 — Nov 2022   - Bir, Himachal Pradesh
- Built **recommender system** for suggesting product purchase.
- Made **Check in System** for hotels
- Worked on building WhatsApp based **Product Management System**
- Implemented **redesign of tour packages**.

Research

2. Optimization of Tail Latency in Edge Computing using RL 🔗

Jan 2023 — Present   - Network Security Lab, IIITD
Guide: Dr. Arani Bhattacharya
- Built a Simulation of **Network** and **Parallel Processing compute device**
- Studied the **change in computation time** in **parallel processing.**
- Built a **Dataset** by collecting data from a **real network**.
- Proposed Reinforcement Learning **solution that outperforms baseline** approaches.

3. Image and Video Segmentation based Rural Road Quality Inspection

Aug 2023 — Present,   - VISION Lab, IIITD
Guide: Dr. Saket Anand
- In collaboration with **Roadways Ministry of India**
- **Annotation** of several factors to build **dataset**
- **Training ML models** on this dataset for quality inspection

PROJECTS

Context sensitive Movie Recommender System 🔗
Guide: Dr. Rajiv Ratn Shah
- Built a system that **recommends movies** having similar **context** to **user query.**
- Information Retrieval Techniques - **TF IDF, Inverted Index, Phrase Query**.
- Recommender model uses **Cosine similarity**
- **Spell correct**, multiple user mode, **user history, user feedback**
- Built **dataset from scratch** using IMDB.py

IRCTC Train Reservation Portal 🔗
Guide: Dr. Mukesh Mohania
- Built back-end on **flask,** front-end on **React**
- **ER diagram** showing relationship between **Entities**
- Integrated with **MySQL** server for **Database**
- Implemented Database feature like **views, grants, triggers, indexing**

Instant Vital Checkup (IVC) 🔗
- **Automate** the process of find out weight, height, BMI, age and **other vitals** so that time is saved while creating profile of patient.
- Used **Computer Vision and Machine learning** to find out the vitals
- Used **Django** for Backend and **HTML, CSS, Bootstrap** for front-end

WhalesBook 🔗
- Front-end development for WhalesBook, a **Crypto based Social Media App.**
- Created many **cross-compatible** front-end components and screens using **React Native** and **Expo CLI**.

ACHIEVEMENTS

- **Specialist** on **Codeforces** Max. **1424** (Amongst top 15% coders)
- **Google Hash Code** 2022 India rank **1180,** International rank **2864** out of 10,000+ teams
- **NASA Goddard Technology Award** Global Finalist - Conrad Spirit of Innovation Challenge (one out of 3 teams from India)
- **JSTSE** Delhi Government Scholar.
- Received rank 10,201 in Jee Mains and 6297 in Jee Advance **(top 1%).**

SKILLS

Data Structures and Algorithms ,
Machine Learning ,
Object Oriented Programming ,
Computer Networks ,
Database Management ,
Operating Systems ,
Full Stack Development ,
C , C++ , Python , Django ,
React , Next JS , HTML , CSS ,
MySQL , MERN Stack , Flask ,
Javascript , R , Git , Github ,
Java

HOBBIES

- Youtube Content Creation,
- Competitive Programming,
- Badminton,
- Playing Guitar,
- Watching Tech Blogs and Vlogs

SOCIALS

LinkedIn   GitHub   CODEFORCES