Ankit Sonal Prasad

7362975797 | @ ankitsprasad007@gmail.com | LinkedIn | GitHub

EDUCATION

Indian Institute of Technology Bombay Mumbai,India
BTech Chemical Engineering *July 2019 − Apr 2023*

PROFESSIONAL EXPERIENCE

MapIT.ai *Machine Learning Research Intern* Mumbai, India *May 2023 − June 2023*
- Leveraged expertise in deep learning to work with the **ResNet1D** (Residual Neural Network) model of **Robust Neural Inertial Navigation** in the Wild, improving model efficiency and accuracy.
- Tasks included model training, parameter tuning, and the application of augmentation techniques to expand and enrich the dataset, resulting in enhanced model performance

Kearney *Algorithm Software Engineering Intern* Mumbai, India *May 2022 − Aug 2022*
- Worked in the HOPTEK team to design logistics algorithms to get **optimized Travel Plan** for the Auto OEM Team
- Designed a variation of **Genetic Algorithm** and **Single Depot Capacitated Vehicle Routing Problem** for finding the best possible Trucking routes.
- Implemented the **Initial Dispatch Plan** in Python using standard graph based shortest path algorithms like **Dijkstra's** and **Kruskal's** Algorithm to get a Initial Working 70% accurate Solution

Tech Japan Inc *Full-Stack Developer* Remote *May 2022 − July-2022*
- Worked in both Frontend and Backend Teams to add optimizations in the company portal and Developed **custom Thumbnails** using **Link Preview npm** to improve recruiter experience in judging candidates Portfolio
- Fetched Candidates **Programming Profile Data JSON** to render on Application sidebar using **website's API**
- Implemented **Skills Match Sorting** for the Student Profile using **Github API** Languages and Stored Languages to give better List of Candidates.

FitBuddy- E-trainer Analytics *Data Science Intern* Remote *May 2021 − July-2021*
- Worked on **OpenCV** and **Mediapipe** Libraries to establish the core logic of **Pose Detection Model**
- Created and Validated training sets for the **k-NN classifier** described in the **MediaPipe Pose Classification**
- Implemented detection of **7 different exercise poses** of Yoga and Gym Exercises based on the **Mediapipe Pose Classification** solutions in Python

Coding Ninjas *Competitive Programming Teaching Assistant* Remote *Jan 2022 − Apr-2022*
- Solved Student's Doubts enrolled in the **Competitive Programming Course** of Coding Ninjas with a rating of 4.5+/5.0

PROJECTS

Modern E-Commerce Website | *GitHub*
- Built a **Responsive E-Commerce Website** with all advanced Cart Functionalities with **NextJs** as a Backend Endpoint
- Managed Advance State Management of the entire application using **React Context API** and the entire content of the app using **Sanity**
- Integrated **Stripe** to manage payments, products, shipping rates, and the entire checkout process.

Fitness Trainer Application | *GitHub*
- Implemented Pose Detection using **Mediapipe Library** to obtain landmarks
- Used the **KNN classification** to evaluate the exercise movements and to count the Reps
- Implemented the **distance algorithm** to make sure the user is at the proper distance from the camera and in the frame

Real-Time Chat Application(Deployed)| *GitHub*
- Developed a Web Application in **NodeJS and ExpressJS** for real time client-server communication using **Socket.io**
- Designed the setup in the form of Rooms inspired from fictional characters for different **Web Socket** Hosting space

Vehicle Number Plate Detector | *GitHub*
- Leveraged Python **Tensorflow Object Detection** to be able to detect license plates using **Kaggle Data**
- Trained the model with a set of 400+ images of Number Plates and extracted text using **PyTorch and EasyOCR**

SKILLS

Codechef: Achieved a **Global Rank of 54** in Starters 41 Div 4. **Max Rating - 1923** *Profile*
Leetcode: Solved **950+ Problems** based on Data Structures and Algorithms. *Profile*
Programming: C++, Python, MATLAB, MySQL, Javascript
Frameworks/Technologies: Github, NextJs, ReactJs, NodeJs, Stripe, Sanity, Tensorflow, Mediapipe
Coding Skills: Solved **1200+ Problems** based on Data Structures and Algorithms on different Platforms. Active on Competitive Platforms like CodeChef, Codeforces

Major coursework: Introduction to Programming, Applied Algorithms, Computational Methods, Competitive Programming by Coding Ninjas
Institute Technical Student Program Mentor: Mentored a group of 4 student in the summers '22 on a Project based on Computer Vision. Provided references and resources for a successful completion of the Project till stage 2