RHYTHM RAWAT

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WORK EXPERIENCE

Popdot Co. Milan, Italy (remote)

Backend developer Intern | January 2024 - June 2024

- Implemented **Django ORM classes** to streamline **database operations**, allowing for more efficient querying and manipulation of data within the application.
- Developed **RESTful APIs** in Django to facilitate seamless communication of data between different components of the system.
- Contributed to **Docker** file optimization to improve deployment processes, ensuring smoother and more reliable application deployment.

Wingfotech pvt. ltd. Ahemdabad, GJ

AI Intern | December 2023 - Jan 2024

- Contributed to a computer vision initiative by developing a robust project utilizing Python and leveraging libraries such as OpenCV and MediaPipe.
- Conducted engaging and informative workshops on Artificial Intelligence and **Machine Learning**, delivering lectures on key concepts, applications, and the latest trends in the field.
- Integrated the trained model into a **Python** script for immediate sign language interpretation, showcasing practical AI applications in real-time.

RELEVANT PROJECTS:

TweeterSphere Link

- A social media platform built in **Django** and **MySQL**, offering similar functionalities such as posting updates, following users, and engaging with content.
- **Containerized** the application using **Docker**, ensuring consistent deployment across different environments and simplifying the setup process for developers.
- Engineered a **CI/CD pipeline** using **GitHub Actions**, **automating** the **build**, **test**, and **deployment** processes, which resulted in improved efficiency and reduced manual errors during deployments.
- Hosted the **Dockerized** application on an **AWS EC2 instance**, leveraging **cloud infrastructure** for **scalability**, **reliability**, and ease of management.

RepTrackerAI Link

- Developed an AI-Powered Exercise Tracking Application: Designed and implemented a fitness application to count exercise repetitions using **OpenCV**, **NumPy**, and MediaPipe.
- Pose Estimation and Angle Calculation: Utilized MediaPipe's pose estimation to extract body landmarks and implemented a custom function to calculate joint angles, ensuring **accurate tracking** of exercises such as bicep curls and squats.
- **Real-Time Video Processing**: Integrated OpenCV for real-time video capture and processing, allowing the application to provide immediate feedback and visualizations on exercise form and repetition count.
- **User Interface** and Visualization: Enhanced **user experience** by overlaying real-time visual cues and repetition counts on the video feed, using OpenCV to render text and graphics dynamically.

SKILLS:

- **Languages:** Python, JavaScript, TypeScript, SQL
- **Frameworks:** React.js, Django, Django Rest Framework, Next.js, Flask, Pytorch, Scikit learn
- **Tools/Technologies:** Git, Docker, Linux, AWS EC2 instance, Machine Learning

EDUCATION:

Bachelor of Science - Computer Science

Dr. Bhimrao Ambedkar University