ASHIF ALAM

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Education

Dayananda Sagar College of Engineering, Bangalore   **2020 - 2024**
B.E in Artificial Intelligence and Machine Learning   *CGPA: 9.13*

Experience

ZopSmart (Kroger)   **August 2024 -Present**
Software developer

* Worked on **API automation** using Rest Assured, Karate Framework as well as **UI automation** using Selenium.
* Designed and executed comprehensive test suites to ensure reliability, functionality, and performance of backend APIs.
* Developed automated scripts for user interaction simulations, ensuring consistent behavior across browsers and platforms.

Anand Neuburg Diagnostic Laboratory   **April 2023 - August 2023**
Data Science Intern

* Developed an application using **machine learning** and **deep learning** to address challenges in interpreting the results of laboratory tests, specifically focusing on Typhifast **ICT** cards or strips for positive or negative classification.
* Addressed challenges: human error, reduced false positives, analyzed varied image orientations, and implemented segmentation for multi-card identification in images.
* Implemented a solution incorporating **Roboflow**, **YOLOv8**, and advanced preprocessing/model-building algorithms to enhance accuracy, reduce human error, and enable robust analysis of test bands, including segmentation in images with multiple cards.

Technical Skills

Languages: Python
Databases: MySQL
Developer Tools: Postman, PyCharm, Git, VScode, Postman, Canva
Frameworks: Scikit-learn, Matplotlib, Streamlit, TensorFlow, RestAssured, Karate

Projects

Enhancing Object Tracking Using Multi-Expert Framework | *Python, YoloV5s, Streamlit,* − Github

* The MEEM framework dynamically selects the most accurate tracker, ensuring robust and precise aerial object tracking under varying conditions.
* It excels in applications like border surveillance, search and rescue, and autonomous systems by maintaining real-time performance and reliability.
* Implements adaptive model switching to optimize tracking performance based on object motion characteristics and environmental changes.

SignSense | *Python, RoboFlow, YoloV5s, Streamlit,* − Github

* Integrates computer vision and machine learning to offer real-time communication assistance, translating **ISL** and detecting emotional states in spoken language.
* Benefits individuals with hearing impairments by providing a technology-driven solution for enhanced communication accessibility.
* Leverages dataset augmentation techniques to improve model accuracy in diverse lighting and background conditions.

Duplicate-Question-pairs | *Python,Machine Learning,NLTK* − Github

* Duplicate question pairs based on **Quora** questions that share identical or closely similar meanings, capturing semantic equivalence.
* Employs TF-IDF, word embeddings, and deep learning models to enhance duplicate detection accuracy and minimize false positives

Certifications

* SimpleLearn certification in python libraries
* TCS MasterCraft DataPlus
* HackerRank Skill Certificate for python

Honors and Awards

* Took part in the 6th Sense workshop conducted by Techfest,**IIT** Bombay
* **HacktoberFest** 2022
* Took part at the **BeachHack5** Hackathon
* Volunteer Experience in Aventus Hackathon