Surafel Diriba

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Education

Collage of Engineering And Technology, Marwadi University   **Rajkot, India**
Bachelor of Technology, Information and Communication Technology (CGPA: 3.13/4.33)July 2014–May 2018

Experience

Dosepack LLC (Meditab Software Pvt. Ltd.)   **Ahmedabad, India**
Programmer Analyst   Dec 2018–Aug 2019
- Improved an in-production optimization algorithm which reduced the cycle-time of the automation process.
- Designed and developed a Video Analytics application that tracks the location of each human in a multi-camera environment along with detailed visualization - from scratch.
- Improved the speed of the Video Analytics application by incorporating the YOLOv3 model for object detection and DeepSORT for multi-object tracking.

Mtag Innovations LLP   **Ahmedabad, India**
Data Scientist   July 2018–Nov 2018
- Developed a cloud-based data visualization and analytics web application aimed at storing and visualizing data-points of each IoT devices.
- Implemented a classification model predicting the degradation of drugs.

Projects

Music Streaming Web App [Project Link]   **July 2020**
- A Django based music player including features: OAuth-based login/registration, playing songs, view recently played songs, creating multiple playlists and favorites list, and searching songs based on singers and languages.
- **Tools:** Django, HTML, CSS, Bootstrap, AWS S3, Heroku.

Quiz Web App [Project Link]   **July 2020**
- A Django based quiz web app for organizing online quizzes and tests which enables users to play quiz and see the ranking on the leaderboard.
- The multiple-choice questions are displayed once per user and questions are randomly displayed for every user. The answer is provided immediately after attempting the question stating whether an answer is correct or incorrect. The leaderboard is sorted by the score obtained by users.
- **Tools:** Django, HTML, CSS, Bootstrap, SQLite, Heroku

Blog Web App [Project Link]   **June 2020**
- A Flask based simple and extensible blog web-app where users can view blog-posts. Incorporated pagination for displaying limited posts per page. The admin can add, delete, update posts.
- **Tools:** Flask, SQLAlchemy, PostgreSQL, HTML, CSS, Bootstrap, Heroku

Visual Question Answering   **April 2018**
- Developed an attention-based classification model that aims at generating an answer for a given input image.
- Incorporated Convolution Neural Networks (CNN) for extracting image features and Long Short Term Memory for extracting question embeddings.

Video Summarizer   **Nov 2017**
- Developed a Seq2Seq model that generates a short summary of the given input video.
- Incorporated CNN to detect and classify objects in the video frames and Long Short Term Memory for generating a summary.

Technical Skills

Languages & Databases: Python, HTML5, CSS3, Shell Script, SQL
Libraries: NumPy, pandas, OpenCV, Pillow, matplotlib, NLTK, scikit-learn, scikit-image
Frameworks: Django, Flask, Bootstrap, Keras, TensorFlow, PyTorch
Tools & Technologies: Git, Heroku