Ricardo Diaz

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- ❖ Languages: Python, C++, Javascript, SQL
- ❖ Frameworks: PyTorch, TensorFlow, Keras, Scikit-Learn, Opencv
- ❖ Tools: Git, Docker, AWS, Azure, Google Cloud Platform

Education

University of London, London, United Kingdom — Expected Grad Date May 2022
Bachelor of Science BSc in Computer Science

Experience

Machine Learning Engineer at Everis NTT DATA — May 2018 - Present

- Developed a facial emotion recognition network in Pytorch to analyze customer satisfaction.
- Improved processes efficiency 99.30% by replacing old methods with Big Data using Spark on Databricks Azure.
- Designed a Cosmetics Recognition CNN achieving a 98.60% accuracy and deployed it using Tensorflow Lite.
- Built a discounts recommender system using a Neural Collaborative Filtering model with implicit feedback in Keras.
- Delivered 3 workshop about deep learning algorithms to educate coworkers and business managers.

Independent Consulting at Udacity — October 2018 – Present

- Assisted more than +500 students in a chat room for an Sentiment Analysis with Neural Networks project in PyTorch.
- Reviewed +65 submissions monthly from 3 different AI related projects maintaining a 5 star rating.
- Contributed with the improvement of multiple projects by giving feedback about students performance and bugs.

Machine Learning Freelancer at UpWork — March 2017 – February 2019

- Worked with more than +8 clients maintaining a perfect 5 star rating with a 100% of job success score.
- Developed a Convolutional/Recurrent neural network model to caption images from news headlines.
- Trained a convolutional neural network to recognize three main facial expressions with +93% accuracy.
- Debugged, designed and improved professional machine learning code in python.

Projects

Personal Discounts Recommender at Everis NTT DATA — November 2018 - February 2019

- Preprocessed the data of millions of interactions from more than +10mill users and +500k items using Spark.
- Achieved a +82% of hit ratio accuracy by implementing a Neural Collaborative Filtering model in Keras.
- Created a containerized flask API using Docker to be deploy the model into a production environment.

Cosmetics Recognition App at Everis NTT DATA — August 2018 - October 2018

- Designed a data collection pipeline to effectively build a dataset of +5k images in a couple days with a small team.
- Trained a MobileNet CNN in TensorFlow using transfer learning, and achieving a 98% accuracy in testing.
- Deployed the model locally into a mobile app in both iOS and Android by converting it to TensorFlow Lite format.

Tracking Customer Behavior System at Everis NTT DATA — May 2018 - July 2018

- Developed a tracking system using YOLOv3/DeepSort to analyze customer behavior inside an establishment.
- Used Opencv to graph a heat map of the different routes taken by the customers in the location's blueprint.
- Built an end-to-end pipeline to receive CCTV camera footage and output spatial analysis reports using Azure.

Extracurricular

Beta Tester at Udacity — July 2018 - Present

As a Udacity beta tester I utilize my specialized knowledge in the fields of Artificial Intelligence, Machine Learning and Deep learning to provide meaningful feedback from new course content and contribute to the development of new nanodegree courses.