ERIC RINCON

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PERSONAL

I am interested in applying machine learning techniques, novel and existing, to create useful data products.

I have applied machine learning techniques to a diverse set of data, such as healthcare, insurance, psychology, and customer service data. I am always willing to take on challenging problems and continually learn new things both in and out of the data science domain.

What excites me the most is using technology to make a meaningful impact, working on interesting and challenging problems, and learning and collaborating with peers.

EXPERIENCE

CognitiveScale — Austin, TX

Applied Machine Learning Scientist

September 2018 – Present

- Consulting for businesses stakeholders to identify solvable machine learning problems with high business value.
- Working on a applying variety of machine learning model classes such as survival analysis, NLP, computer vision, and representation learning.
- Developing production ready models for internal company use and working with software engineers for deployment.

UT Austin - Psychoinformatics Lab — Austin, TX

Social Science/Humanities Research Associate I

August 2018 – September 2018

- Worked on applying representation learning techniques to psychometric data. The main goal was to learn a global representation for personality by training a variational autoencoder on a variety of personality inventories.

Good Citizen Network Foundation — Austin, TX

Software Engineer

March 2018 – May 2018

- Worked in small cross functional team to develop a social network dedicated to prompting social good.
- Built REST APIs and backend utilizing JavaScript, Express, MongoDB; worked on front end Vue.js code.

Guild Consulting — Austin, TX

Data Scientist & Software Engineer

September 2017 – February 2018

- Worked on a small agile team of software engineers to rapidly develop technical solutions for clients
- Built REST APIs and data models for client projects using Python, Flask, JavaScript and Express

Apple — Austin, TX

Data Scientist - NLP Intern

May 2016 – September 2017

- Applied machine learning techniques to classify, cluster, and understand unstructured customer issue notes.
- Designed dashboards to disseminate findings from machine learning models to nontechnical users.
- Worked with internal team of software engineers on deploying models to a production environment.

EDUCATION

University of Texas at Austin

Austin, TX

B.S. in Computer Science

B.S. in Mathematics

Graduated August 2018

SELECT PROJECTS

Assisting Customer Support Analysts with NLP

- *Question*—Can we automate the categorization of customer issue descriptions into an internal issue taxonomy?
- *Approach*—Trained a convolutional neural network to classify customer issue descriptions.
- *Solution*—Implemented in Python using TensorFlow and exposed to end-users via a GUI running as a Flask application. Collaborated with software engineers to put into prediction to serve to domain experts through a UI.

Predicting Multiple Events from EMR Data

- *Question*—Can we assist medical practitioners by predicting whether events of interest will occur to patients in the future utilizing EMR data and unstructured progress notes all while providing explanations?
- *Approach*—Combined survival analysis techniques and black box explainability models i.e., shapley values.
- *Solution*—Used Tensorflow to create a neural network that parameterizes a weibull distribution for each event of interest and takes as input two modalities, progress notes and EMR data.

Additional Projects...

- Applied representation learning techniques to learn a "universal" generative model of different personality inventory items.
- Classification of biomedical abstracts for the task of systematic review synthesis.
- Automation of dating application behavior using computer vision and natural language processing techniques.
- Scanned document classification and segmentation using deep learning techniques.
- Prediction of soccer game outcome using machine learning and weak supervision.

PROGRAMMING

Python, R, TensorFlow, PyTorch
PyData stack
Swift, Java, JavaScript, MongoDB, SQL
Flask, Mongoose, Express, Unix
MATLAB, VueJS