Anaelia Ovalle

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GitHub | Website

**Curious.
Benevolent.
Data Scientist.**

Experience

Data Scientist, Unity Technologies; San Francisco, CA— September 2017-August 2019
- Enabled game developer success by optimizing for customer lifetime value. Starting from the business use case, my team improved ad spend by >5% (>$500,000). I productized **reinforcement learning** and **deep learning** algorithms using **Python, PySpark, Tensorflow** and managed these algorithms on **AWS** and **Google Dataproc**
- Spearheaded 2 ML product verticals with over 100,000 daily active users, resulting in an average lift of over 20% in total revenue for our developers
- Worked in cross-functional pods where I guided product decisions through the design and monitoring of **A/B tests** from extending existing machine learning methods (e.g. **logistic regression)** and implementing experimental machine learning models **(e.g Q - learning)** customized to the business use-case

Data Science Intern, Unity Technologies; San Francisco, CA — May 2017-August 2017
- Developed a churn prediction model for mobile gaming applications using **PySpark** and **Tensorflow**. Implemented and benchmarked performance of classic machine learning algorithms against deep learning methods to predict player churn. My deep learning model improved the productized model's AUC by 28%

Instructor, Google CS4HS; San Francisco, CA — September 2015-August 2016
- Founded CS4HS program at the University of San Francisco to promote computer science education in high schools using MIT's App Inventor

Research & Project Highlights

2020 Projects
- Text Style Transfer using **VAEs** to Disentangle Text Style on **PyTorch**
- Deepfake Video Detection using **CNN + RNN Single Frame** on **PyTorch**

2019 Research Data Scientist for Clinicians at Brown Alpert Medical School:
- Poster: Effect of Prescription Opiate Use on Mortality and Length of Stay in ICU

2017 Research Assistant for University of San Francisco:
- Paper: A Smartwatch-Based Medication Adherence Monitoring System Using Machine Learning and Distributed Computing

Education

University of California, Los Angeles; LA, CA – PhD Machine Learning, 2020 - Present
- Tentative Dissertation: Mitigating Bias in AI to Build a Future Towards Equitable Personalized Medicine
- Relevant coursework: Deep Learning, Fairness in AI & NLP, Machine Learning for Bioinformatics

University of San Francisco, San Francisco, CA – B.S. Data Science, 2017

Interests

Empowering Women in STEM, Spoken Word Poetry, Astronomy