Kevin Galvan Cuesta

Data Scientist and Software Engineer

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EDUCATION

Case Western Reserve University **Spring 2022**
Bachelor of Arts with majors in Computer Science, Economics, & Philosophy
Minors: Artificial Intelligence & Political Science

GPA: 3.89 in major - *Maybell S. Donnell Award, Dean's Honors List 2018-2022*

TECHNICAL SKILLS

- Machine Learning
- Python
- Scikit-learn
- Tensorflow
- Big Data
- SQL
- Spark
- Hadoop & HDFS
- Java & Algorithms
- R & Stata
- Tableau
- Git

EXPERIENCE

CALIFORNIA HOUSING DEPARTMENT ***June 2022 - March 2023***
Data Science Consultant

- Developed novel regression-based algorithms to accurately calculate financial metrics using comprehensive parcel data, including information on base-zoned and bonus-zoned units, building permits, and assessor data.
- Achieved 81% accuracy on an SVM ensemble to predict the likelihood of obtaining building permits on land parcels using the generated financial metrics in Python (using Scikit-Learn).
- Presented these findings leading to 7 other cities to join the project, thus increasing our total data availability by 400%.
- Reduced 90% of parcel analysis and financial calculation overhead by automating parcel distribution decisions using PyXLL and Excel VBA, resulting in significant cost savings for the department.

CASE SCHOOL OF ENGINEERING ***Dec. 2021 - May 2022***
Research Lead

- Successfully secured funding to hire 3 new workers by building a demo .NET image processing application to find key body points using Blazepose, Caffe, and OpenCV in Python.
- Led the new team to remodel the original work into a web application using HTML and JavaScript.
- Improved the robustness of the algorithm by 35% for off-center and obscure image angles.
- Reduced professors' workloads by providing on-demand Statics Engineering practice to students in over 80 engineering schools (available in portfolio).

WEATHERHEAD SCHOOL OF ECONOMICS ***Aug. 2019 - May 2022***
Teaching Assistant

- Facilitated student success and improved grades by 17% compared to other cohorts through coaching students in data analysis via laboratory sections in R, Stata, and Python.
- Modernized graduate-level course material by creating new projects, including a machine learning project for Advanced Econometrics, which accounted for 25% of assignments and lectures.
- Enriched the Public Finance lecture series by conducting a semester-long supervised independent study on Economic Philosophy. My final essay contribution was selected to become a new lecture.

GRADUATE COURSE RESEARCH

Machine Learning **Summer 2021**

"Poisoning Attacks against SVMs" by Biggio (2013) We studied Gradient Ascent using various batch and step sizes. Our results were mixed but generally demonstrated quadratic patterns of accuracy in different data sets.

"Efficient Label Contamination Attacks against Black-Box Learning" by Zhao (2017) Our research delved into flip cost functions for potential attackers. We achieved 12 % reduction in accuracy post-poisoning.

AI: Sequential Decision Making **Fall 2021**

"Online Planning for Resource Production in RTS Games" by Ray (2007) Extended this paper by modernizing its scheduling algorithms. Using the new approaches, efficiency of planning increased by a few %.

"A Cascaded Supervised Learning Approach to Inverse RL" by Klein (2013) Researched alternative regressions in the estimation step. Due to the sparsity of our sample space, we selected Gaussian Process and Ridge regressions which increased our R-Squared by 15 %.

CERTIFICATIONS

- **Algorithms Certificate** **AlgoExpert, Jan 2023**
- **Data Analysis with SQL** **Codecademy, Mar 2023**
- **Tableau for Data Visualization** **Codecademy, Jan 2023**

INTERESTS AND ADDITIONAL SKILLS

- **Native Spanish speaker**
- **Hispanic Youth Group leader, St. Pius X** **2018 - Current**
- **Secretary for CWRU's NorthEast Ohio Student Venture Fund** **2020 - 2021**
- **Hobbies: Guitar and Tennis**