KEVIN GALVAN CUESTA

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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 - *Dean's Honors List 2018-2022*

Relevant Course Work:
Algorithms, Machine Learning, AI: Sequential Decision Making, Advanced Econometrics, Databases, Ethics and AI, Healthcare Economics, Urban Economics, Game Theory, Political Philosophy, Ethics and Public Policy, Financial Technologies, Entrepreneurial Finance, Public Finance

TECHNICAL SKILLS

- Machine Learning
- Python
- Tensorflow & Keras
- Scikit-learn & Pandas
- Data Analysis
- (Postgre & My) SQL
- Spark & Hadoop
- Java & Algorithms
- Data Visualization
- R & Stata
- Tableau & Seaborn
- Git Bash & VS Code

EXPERIENCE

California Housing Department and Community Development   **Remote**
Data Science Consultant   *June 2022 - March 2023*

- Calculated financial metrics using location, size, access and other parcel data
- Designed multiple probabilistic learning approaches and an SVM ensemble to predict the likelihood of obtaining building permits on land parcels in Python (Scikit-Learn)
- Created to automate parcel distribution decisions by the State using Excel VBA

Case School of Engineering   **Cleveland, OH**
Research Lead - Pose Estimation Web App   *Dec. 2021 - May 2022*

- Built .NET image processor to find key body points using Blazepose and OpenCV in Python
- Led new team to remodel original work into web application using HTML, JavaScript, CSS
- Tested and improved robustness of algorithm by 35 % for off-center and obscure image angles
- Created for use by 80+ engineering schools in Africa and the U.S. Available at: estimatepose.case.edu (Please reach out for credentials)

Weatherhead School of Economics   **Cleveland, OH**
Teaching Assistant - Advanced Econometrics, other courses   *Aug. 2019 - May 2022*

- Taught Data Analysis and Visualization through laboratory sections in R, Stata, and Python
- Adapted my machine learning work to create a new project for Advanced Econometrics
- Took a supervised self-study course in Economic Philosophy. This essay work was selected as lecture material for Public Finance

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 AND TECHNOLOGIES

- **Algorithms Certificate**   **AlgoExpert, Jan 2023**
- **Tableau for Data Visualization**   **Codecademy, Jan 2023**
- **Data Analysis with SQL**   **Codecademy, Mar 2023**
- **Apex, Einstein Prediction Builder, Tableau**   **Salesforce Trailhead**

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**