Ezra **Citron**

Contact

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Skills

R: tidyverse (dplyr, tidyr, ggplot2, purrr etc), tidymodels, tidytext, igraph (Network Analysis and visualisation), Shiny, Rmarkdown, package development (devtools).

Python: numpy, pandas, NLTK, NetworkX, scikit-learn

Programming: Git, Bash, SQL, mardown, HTML/CSS

Machine Learning: Linear/ Poly Models, GAMs, Logistic, Decision Trees, Random Forsts, SVMs, KNN.

Hobbies

Sport: I love hiking and being outdoors, I'm also a keen runner, enjoying anything from 5k up to half marathons.
I play for my local tennis club participating in their doubles tournaments.

Music: I play guitar in a band with my two younger brothers

Education

Jul 2019 – Sep 2018 Christ's College, University of Cambridge - Economics Adv. Dip

Modules: Monetary and International Macroeconomics, Game Theory, Advanced Econometrics I & II
Data Project: "*Development in South East Asian (ASEAN) countries*" using databases sourced from the World Bank. Macroeconomic variables (FX, FDI, Inflation) and Labour Markets Characteristics were used to develop a Model to identify trends and provide policy recommendations. Methods: OLS estimation, Time Series Analysis, Panel Data Methods, IV estimation.

Jul 2018 – Sep 2015 King's College London - BSc Mathematics

1st Class Honours (75% avg.)
Modules: Financial Mathematics, Probability & Statistics, Linear Models & Regression Analysis

Jun 2014 – Sep 2007 Hasmonean High School

A Level: Mathematics (A*) Further Mathematics (A*) Physics (A)
GCSE: 5 A* , 5 A

Experience

Present – Sep 2019 HSBC - Data Science - Canary Wharf

Data scientist, People Analytics team at HSBC. Applied data science and advanced analytics to employee datasets in order to improve organisational decision making

- Lead an ML project to predict outcomes of new joiners based on application features. Inferial ML techniques were used to understand the factors leading to successful employees. Ensemble modelling was used to predict attrition of new joiners. A web application (shiny) was built to present the findings to senior stakeholders.

- Extracted data driven insight from global HSBC survey (~70,000 respondents) during covid pandemic. NLP (tf–idf, topic modelling) used on unstructured verbatim comments. Binary clustering used to group employees into different personas in order to monitor employee experience.

- Built a core automated analytical system for HSBC bonus modelling. Written in R with fully automated execution and testing. The scripts ran monthly and were an integral part of determining employee bonus.

- Built and brought to production a custom ribbon in the Microsoft suite to streamline data transfer and add security. UI written in xml, using VBA to connect to a back-end SQL database.

- Analysis on internal misconduct data for evidence of gender/ethniciy bias. I ran statistical tests to check for significance of bias. NLP was used on comments to extract severity of misconduct and visualise topic themes.

- AI bias detection in a job selection algorithm from external provider. Involved building inferencial models to assess the significant factors leading to selection.

Present – Sep 2019 Kubrick Group - Data Engineer

Kubrick's unique graduate programme begins with 4 months of intensive training and is immediately followed by 2 years of work on client projects; enabling an accelerated route into a exciting career in data science.