

# Ratul Esrar

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## EDUCATION

### THE UNIVERSITY OF CHICAGO MS IN COMPUTATIONAL ANALYSIS & PUBLIC POLICY (MSCAPP)

June 2018 | Chicago, IL  
The Harris School of Public Policy

### BA IN ECONOMICS

June 2017 | Chicago, IL  
Minor in Statistics  
Dean's List 2013-2017

### BOCCONI UNIVERSITY

Fall 2015 | Milan, IT  
Business Exchange Program

## SKILLS

### PROGRAMMING

Python (numpy, pandas, sklearn, nltk)  
SQL (Postgres, MS SQL Server, Oracle)  
R (ggplot, shiny, dplyr)  
AWS (EC2, S3, Redshift)  
Stata •  $\LaTeX$

### SOFTWARE

Tableau • Salseforce  
Alteryx • Talend  
Microsoft Office • Google Suite  
Adobe Photoshop & Illustrator

## COURSEWORK

### GRADUATE

Econometrics & Program Evaluation  
Natural Language Processing (NLP)  
Machine Learning for Public Policy  
Survey Questionnaire Design  
Polling for Political Campaigns  
Mobile Computing  
Data Visualization  
Databases

### UNDERGRADUATE

Microeconomics & Macroeconomics  
Applied Regression Analysis  
Categorical Data Analysis  
Computer Science & Applications I-II  
Politics & Policy  
Financial Accounting  
Corporate Finance

## LINKS

Github:// [ratulesrar3](#)  
LinkedIn:// [ratulesrar](#)  
Twitter:// [@ratulesrar3](#)

## PROFESSIONAL

### KAISER PERMANENTE

#### SENIOR DATA ANALYST

March 2020 – Present | Oakland, CA

The Permanente Medical Group (TPMG) Consulting Services

- Developed complex reporting programs in SAS, SQL, and Tableau, leveraging automation and macros, to enable population health management reporting
- Informed regional and local strategy around telehealth and interpreter services during COVID-19 pandemic, leveraging user-friendly actionable analysis

### SAGENCE CONSULTING

#### SENIOR DATA ANALYST

June 2018 – March 2020 | Chicago, IL

Healthcare • Business Intelligence

- Leveraged SQL and Tableau visualizations to develop data quality and patient safety dashboards that provide real-time tracking of quality and safety metrics
- Built ETL jobs using Talend to load vendor systems data into a centralized data warehouse (EDW) to enable more accurate research/financials reporting

Real Estate • Data Modeling

- Designed an enterprise data model (EDM) for multi-family real estate properties to enable business intelligence and reporting capabilities

Insurance • Data Strategy & Compliance

- Planned and conducted an organization-wide assessment of data consumption to understand the periodic decisions each business unit makes and the data (e.g. KPIs, metrics) required to make those decisions

## RESEARCH

### LONDON BUSINESS SCHOOL DEPARTMENT OF FINANCE

#### RESEARCH ASSISTANT FOR PROF. ROBERTO GOMEZ CRAM

February 2020 – May 2020 | London, UK

Relating FOMC Emotions to Company Asset Prices

- Created a deep learning pipeline for facial emotion recognition (FER) of Federal Reserve Open Market Committee (FOMC) meeting videos; reviewed academic literature relating consumer product reviews and tweets to asset prices

### CENTER FOR DATA SCIENCE AND PUBLIC POLICY (DSAPP)

#### MACHINE LEARNING FOR PUBLIC POLICY • COURSE PROJECT

April 2018 – June 2018 | Chicago, IL

Predicting Post-Release Interactions with Mental Health Systems

- Identified Johnson County inmates who are more likely to enter the county mental health system within year of release from jail using rich feature set created based on information available to the jail system at the time of release
- Informed research efforts on how likely a recently released inmate is to access mental health services, allowing for more targeted interventions in an attempt to smooth re-entry into everyday life for releasees and reduce recidivism

### SAND (SYSTEMS, ALGORITHMS, NETWORKING AND DATA) LAB

#### RESEARCH ASSISTANT (LOCALIZATION)

January 2018 – March 2018 | Chicago, IL

Detection of Hidden Wi-Fi Cameras: CamBurglar

- Trained a classification tool that tracks transmissions sent to a wireless access point in order to predict the type of device sending each web request