

CARLOS A. HARO

Data scientist with experience in scalable data products.

Currently searching for a Sr. Data Science position, but with interest in a Mid-level ML Engineering role.



EXPERIENCE

Jan. 2019
|
present

Sr. Data Scientist

Mexico's Central Tax Administration Office 📍 Mexico City
(Servicio de Administración Tributaria)

- Development and deployment of a supervised model for classifying tax debt | *R (tidyverse, ranger), Python (scikit-learn, pandas), SQL*
- Designed and taught three courses for the institution's staff training: introduction to R, basics of exploratory data analysis, building data science pipelines using Makefiles | *R (tidyverse, ggplot2), GNU Make*
- Designed a pipeline for automatic generation of frequent data visualization reports | *R Markdown (ggplot2, shiny)*
- Perform network analysis to detect tax evasion communities | *R (tidyverse, visnetwork, ggraph)*

2018

Jr. Data Scientist | Economic Analyst

EnergeA (Energy Sector Consulting Firm) 📍 Mexico City

- Developed a statistical model for identifying anti-competitive practices between the mid-stream natural gas providers | *R*
- Built a PDF scrapping pipeline of 100+ files for ownership analysis of Mexico's natural gas industry. | *R (stringr, selenium)*



MISCELLANEOUS

2020

Podcast host

Currently a host in "Cuestion de datos", a weekly data related podcast. ([Spotify link](#))

2020

Teaching

Currently teaching a data analysis course (*pro bono*)

Objective: To teach political science, management, and economics students about modern computational techniques for data analysis.

Syllabus: ([Download link](#))

Software: R, Python, PostgreSQL

Institution: ITAM ([webpage](#))

Language: Spanish

Amid COVID course videos: ([YouTube link](#))

2019

Hackaton challenge winner

Annual BBVA Hackaton Challenge

Organizer: BBVA Bank

Challenge: Update and insert operation of a 50 million observations dataset in under 10 minutes.

Result: 95%+ accuracy of update and insert achieved in 4 minutes | *Pyspark on AWS for the algorithm, RMarkdown for the report*



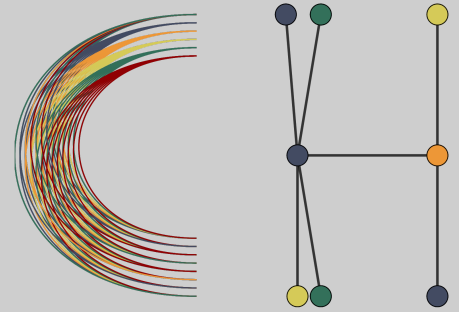
EDUCATION

2014
|
2018

(ITAM) Instituto Tecnológico Autónomo de México

B.S., Economics

📍 Mexico City, Mexico



CONTACT INFO

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🐦 [@haro_ca](https://twitter.com/haro_ca)

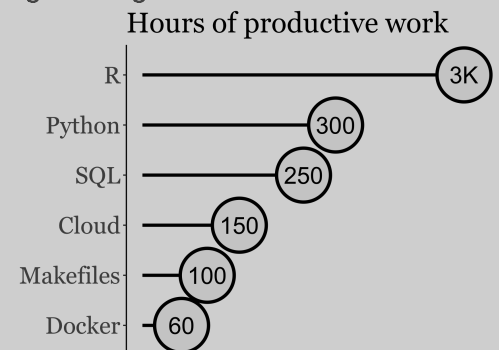
📞 [haro-ca](https://github.com/haro-ca)

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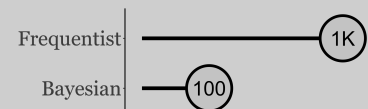
SKILLS

Outliers, a book by Malcolm Gladwell, states that mastery over a skill can only be achieved by 10,000 hours of productive work. While there is both evidence in favor and against this theory, I do find it a good proxy for maturity of a skillset. The charts below attempt to summarize my current progress.

Programming



Statistics



Main experience with frequentist methods, but with high interest to develop in bayesian's.

Miscellaneous

Vim enthusiast, in the Terminal, in VS Code, in RStudio, in Chrome (with Vimium), even in the whole OS (with Karabiner)!
Chess fanatic (chess.com profile)

This resume was made with the R package [pagedown](#).

Last updated on 2020-09-30.