

EXPERIENCE

• UNDP (ONU)

Data Science Consultant

Caracas, VE

August 2019 - Present

- Designed and develop workflows for topic modeling and community detection to analyze hundred-thousand-scale text and network data.
- Sped up the analytical workflow by 75% by redesigning the sampling strategy for jobs.
- Generated CLI tool for automation of predefined analysis workflows.

Technologies: Python, R, Bash, Gephi and Power BI.

Theory: Topic modeling, Community detection, Network Analysis and NLP.

• Quash.ai

Machine learning engineer

(remote) Caracas, VE

February 2019 - March 2020

- Developed a customer facing API for using our internal credit scoring model.
- Improved credit scoring model performance of 5 business clients by 15% by incorporating state-of-the-art ML models adapted for our feature sets and hyper-parameter optimization models.

Technologies: Python, R, S3 and Docker.

Theory: Credit scoring and Hyper-parameter optimization.

• Advogt

Machine learning engineer

(remote) Caracas, VE

February 2019 - August 2019

- Implemented Deep learning model for classifying malicious urls using only urls' text features, achieving 90% of baseline accuracy by adapting state-of-the-art models on urls classifications.

Technologies: Python, Elasticsearch and Spark.

Theory: Deep learning and Text classification.

• Universidad Central de Venezuela

Advanced topics in AI (Adjunct Professor)

Caracas, VE

October 2018 - Present

- Designed and organized course material and resources for topics described in here.
- Lectured material for students and grade their assignments.

Introduction to Data Science (Teaching assistant)
Data Mining (Teaching assistant)

April 2015 - February 2018
August 2015 - February 2018

- Designed and organized **practical** course material and resources for topics described in here.
- Lectured **practical** material for students and grade their assignments.

Technologies: Python, Latex, R, Weka, Colab, Jupyter and swirl.

Theory: Artificial intelligence, Data science and Data mining.

• Fetcher

Data Scientist

Caracas, VE

June 2018 - February 2019

- Estimated demand of required candidates for sourcing using daily output data.
- Generated automated allocation algorithm for reducing overload of sourcing teams by 10% by using linear programming and constraint satisfaction techniques.

Technologies: R, Shiny, Latex, SQL and Metabase.

Theory: Linear programming and Constraint Satisfaction problems.

- **Predictvia**

Artificial Intelligence
Artificial Intelligence intern

Caracas, VE

July 2016 - January 2017
February 2016 - July 2016

- Performed social network analysis, exploratory data analysis, supervised and unsupervised learning
- Built and implemented classification models, perform feature engineering and calibrated existing models.

Technologies: Python. **Theory:** Social network analysis, Attribution models and Recommendation systems.

EDUCATION

- **Universidad Central de Venezuela**

B.Sc in Computer Science

Caracas, Venezuela

Sept. 2012 – Jun. 2018

- Took elective courses on: Introduction to data science, Advanced topics in data science, Artificial Intelligence, Data mining, Text mining, NoSQL databases, Digital image processing.
- (Thesis title) AdaBnn: Binarized Neural Networks trained with adaptive structural learning.

Following sections items are clickable

CERTIFICATIONS

- **Coursera**

R Programming - ID: MZ7TC7ADV7YY
Text Mining and Analytics - ID: 36JC577GBFYD
Text retrieval and search engines - ID: MDWATFKLPH9Z
The Data Scientist's Toolbox - ID: TM7T8CJXNV6R
Data Visualization - ID: WYGG7TDFPB3F

MOOC

Issued September 2016
Issued August 2016
Issued June 2016
Issued June 2016
Issued March 2016

PROJECTS

- AdaBnn: Binarized Neural Networks trained with adaptive structural learning.
- WarmChat: This app is a small chat room that classify every message and say weather is an insult or not using four classifiers: svm, random forest, decision trees and max entropy.
- Small tool for generating frequent words analysis on the position names of LinkedIn Connections.
- Template for Dockerized Shiny (R) application deployment.

PERSONAL PUBLICATIONS

- Sajidxa Mariño, Jesus Lares, Wilmer Gonzalez. Diode's Laser in Office Endoscopic Surgery Center for Nasal Obstruction and Snoring. J Med - Clin Res Rev. 2018; 2(6): 1-3.
- Twitter, A data source for the academy (spanish).
- GitHub & Social Coding. Social network for programmers (spanish).
- Reproducible Research. Case of study: allocation of university places in UCV by OPSU (spanish).

OTHER PROGRAMMING TOOLS

- **Cloud services:** AWS(Lambda, S3, Sagemaker), Azure(Blob storage).
- **Deep learning frameworks:** Keras, Tensorflow.
- **R:** dplyr, ggplot, tidyr, shiny, plumber.
- **Python:** xgboost, sci-kit, pandas, falcon, flask.
- **Webserver:** Unicorn.