

## 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.

### • Advoqt

*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.