

# Wilmer A. Gonzalez S.

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 wilmeragsgm

</> Python, R

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## EXPERIENCE

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### • 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

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- **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 for references.

## CERTIFICATIONS

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- **Coursera**

Structuring Machine Learning Projects

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

Neural Networks and Deep Learning

R Programming

Text Mining and Analytics

Text retrieval and search engines

The Data Scientist's Toolbox

Data Visualization

MOOC

Issued May 2020

Issued May 2020

Issued May 2020

Issued September 2016

Issued August 2016

Issued June 2016

Issued June 2016

Issued March 2016

## PROJECTS

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- 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

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- 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).

*Not clickable anymore.*

## OTHER PROGRAMMING TOOLS

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- **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.