

# Wilmer A. Gonzalez S.


Machine Learning Engineer

Caracas, Venezuela.

Latest  / Light 

 wilmeragsgm

 wilmeragslin

 wilmeragsgh

## EXPERIENCE

---

### • Quash.ai

(remote) Caracas, VE

*Machine Learning Engineer*

*March 2021 - Present*

- Build a new version of a scoring API as part of the core component of the product with dynamic feature processing pipelines.
- Build a AutoML service for the modeling need of the product.
- Assist customer success needs from data science.
- Design ML workflow for new customers processing pipelines.

**Technologies:** Python, R, AWS, Sagemaker, REST APIs.

**Theory:** Machine learning, AutoML, Feature engineering, Project management.

### • Omdena

(remote) Caracas, VE

*Lead Machine Learning Engineer*

*Jan 2021 - Apr 2021*

- Build a model that attaches a trust score to online news articles and claims and identifies related articles with opposing stances.
- Specifically worked on claim detection models through reviewal of active research and their implementation.
- Contributed to open-source projects related to the area of research.

**Technologies:** Python, Keras, Tensorflow, Falcon, REST APIs.

**Theory:** NLP, Deep Learning, Web development.

### • UNDP (ONU)

Caracas, VE

*Data Science Consultant*

*August 2019 - Present*

- Processed roughly 1.1M tweets with tasks such as Topic Modeling to provide informative summaries related to opinions and trends.
- Processed 150k user data with tasks such as Community detection and Network analysis to detect key actors and information hubs.
- Sped up the analytical workflow by 75% by redesigning the sampling strategy for jobs.

**Technologies:** Python, R, Bash, Gephi, Power BI, REST APIs, Airflow.

**Theory:** Topic modeling, Community detection, Network Analysis and NLP, Data visualization, Data engineering

### • Universidad Central de Venezuela

Caracas, VE

*Advanced topics in AI (Adjunct Professor)*

*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.

- **Oliver Wyman/Bairesdev**

*Data engineer*

(remote) Caracas, VE

July 2020 - November 2020

- Helped to create a container image for provisioning Airflow instance.
- Created dynamic DAGs (Airflow) for (30+) stored procedures (SQL Server) by automatically parsing them from scripts.
- Created dynamic DAGs for importing tabular data (1M+ records) to SQL Server.
- Created dynamic DAGs for importing google analytics.

**Technologies:** Python, Airflow, SQL Server, Jenkins, Rancher, Docker, Kubernetes.

**Theory:** Data pipelines orchestration, ETL, Provisioning.

- **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.

- **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.

## 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...
- **DevOps:** Jenkins, Terraform.
- **\*Learning:** Vue, Nodejs.

## EDUCATION

---


- **Universidad Central de Venezuela**

Caracas, Venezuela

*B.Sc in Computer Science*

*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

---

- **Coursera**

MOOC

*Deep learning Specialization*

*Issued January 2021*

*Sequence Models*

*Issued January 2021*

*Convolutional Neural Networks*

*Issued September 2020*

*Structuring Machine Learning Projects*

*Issued May 2020*

*Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization*

*Issued May 2020*

*Neural Networks and Deep Learning*

*Issued May 2020*

*R Programming*

*Issued September 2016*

*Text Mining and Analytics*

*Issued August 2016*

*Text retrieval and search engines*

*Issued June 2016*

*The Data Scientist's Toolbox*

*Issued June 2016*

*Data Visualization*

*Issued March 2016*

## PERSONAL 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.
- Latex template for CVs with dark theme, with CV guidelines from google.

## 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).