


Wilmer A. Gonzalez S.

Machine Learning Engineer

Caracas, Venezuela.

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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**

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

- **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).