


Wilmer A. Gonzalez S.


Machine learning engineer

Caracas, Venezuela.

Latest  / Light 

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EXPERIENCE

• Quash

(remote) Caracas, VE

March 2021 - Present

Machine learning engineer

- Technical guide of the Data Science team (5 members).
- Improve the adaptability of the scoring API by creating 10+ features engineering stages.
- Build an AutoML service for the modeling need of the product.
- Design ML workflows for new customers processing pipelines.

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

• UNDP (UN)

Caracas, VE

August 2019 - Present

Machine learning engineer

- Provide summaries from opinions and trends by processing 1.1M tweets with Topic Modeling techniques.
- Detect key actors and information hubs by processing 150k user's data with Network analysis.
- Sped up the analytical workflow by 75% by redesigning the sampling strategy for jobs.

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

• Universidad Central de Venezuela

Caracas, VE

October 2018 - June 2021

Adjunct professor (Advanced topics in AI)

- Designed and organized course material and resources for topics described in here.
- Lectured material for students and grade their assignments.
- Tutored thesis work on AI.

Teaching assistant (Introduction to Data Science, Data Mining)

April 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.

• Omdena

(remote) Caracas, VE

Jan 2021 - Apr 2021

Lead machine learning engineer

- Helped create a trust score for news articles by implementing a claim detection model.
- Improved usability of created models by creating a chrome extension connected to them.
- Contributed to open-source projects related to NLP and Deep Learning models.

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

- **Oliver Wyman**

Data engineer

(remote) Caracas, VE

July 2020 - November 2020

- Enabled data pipelines processing by provisioning and configuring Airflow.
- Created DAGs for 30+ stored procedures from SQL Server scripts.
- Created DAGs for importing tabular data (1M+ records) to SQL Server.

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

- **Quash**

Machine learning engineer

(remote) Caracas, VE

February 2019 - March 2020

- Developed a customer facing API for using our internal credit scoring model.
- Increased approval rate by 15% of customers while keeping the same risk by optimizing state-of-the-art ML models.

Technologies: Python, R, S3 and Docker.

- **Advoqt**

Machine learning engineer

(remote) Caracas, VE

February 2019 - August 2019

- Increased security by implementing a Deep Learning model for classifying malicious urls with high accuracy.

Technologies: Python, Elasticsearch and Spark.

- **Fetcher**

Data scientist

Caracas, VE

June 2018 - February 2019

- Reduced overload of sourcing teams by 10% by creating an automated allocation algorithm with Linear programming and Constraining Satisfaction techniques.
- Estimated demand of required candidates for sourcing using daily output data.

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

- **Predictvia**

Machine learning engineer

Caracas, VE

February 2016 - January 2017

- 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, bash.

TECHNICAL SKILLS

- **Programming languages:** Python, R, Bash, Julia.
- **Cloud services:** AWS (Lambda, S3, Sagemaker), GCP (AI Platform), Azure (Blob storage).
- **Deep learning frameworks:** Keras, Tensorflow.
- **Others:** xgboost, scikit, pandas, falcon, flask, fastapi, Docker, Kubernetes, Jenkins, Terraform
- **Currently 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.

CERTIFICATIONS (WITH LINKS)

- **Udacity** MOOC
Machine learning engineer nanodegree Issued March 2021
- **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 (WITH LINKS)

- Philia: A Slack bot for empathy assessment in co-workers communications.
- AdaBnn: Binarized Neural Networks trained with adaptive structural learning.
- WarmChat: This app is a 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 (WITH LINKS)

- 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).