Wilmer A. Gonzalez S.

Machine learning engineer
Caracas, Venezuela.
Latest / *Dark*

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Experience

- **CircleUp** (remote) Caracas, VE
  Machine learning engineer *August 2021 - Present*
  - Enable ML monitoring practices across 5 use-cases in the CPG industry.
  - Enable semantic comparison of 1.7M brands and a hundred thousand text attributes.
  - Improve and maintain classification pipelines of millions of observations with tens of GB-scale text data.

  Technologies: AWS, GCP, Python, PySpark, Airflow, Vertex, BigQuery, Dataproc, Tensorflow, BERT.

- **UNDP (UN)** Caracas, VE
  Machine learning engineer *August 2019 - August 2021*
  - Provide summaries from opinions and trends by processing 1.1M tweets with Topic Modeling and transformer based models.
  - 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, JS, Vue, Bash, Gephi, Power BI, REST APIs, Airflow, Tensorflow, BERT.

- **Quash** (remote) Caracas, VE
  Machine learning engineer *March 2021 - July 2021*
  - Technical guide of the Data Science team.
  - Improve the adaptability of the scoring API by creating 10+ features engineering stages.
  - Deploy personalized ML models for credit scoring, processing 10k+ applications across 5+ countries.

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

- **Universidad Central de Venezuela** Caracas, VE
  Adjunct professor (Advanced topics in AI) *October 2018 - June 2021*
  - 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 related to computer vision
    (Awarded with country-wise recognition for thesis work between 6 final candidates).

  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
  Lead machine learning engineer *Jan 2021 - Apr 2021*
  - Helped create a trust score for news articles by implementing a claim detection model.
  - Improved usability of the product by creating a chrome extension connected to resultant models.
  - Contributed to open-source projects related to NLP and Deep Learning models.

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

- **Oliver Wyman** (remote) Caracas, VE
  Data engineer *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** (remote) Caracas, VE
  Machine learning engineer *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** (remote) Caracas, VE
  Machine learning engineer *February 2019 - August 2019*
  - Increased security by implementing a Deep Learning model for classifying malicious urls with high accuracy.

  Technologies: Python, Tensorflow, Elasticsearch and Spark.

- **Fetcher** Caracas, VE
  Data scientist *June 2018 - February 2019*
  - Decreased overload of sourcing teams by 10% by creating an automated allocation algorithm using Linear programming and Constraint Satisfaction techniques.
  - Estimated demand of required candidates for sourcing using daily output data.

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

- **Predictvia** Caracas, VE
  Machine learning engineer *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:** Transformers models, 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/Coursera** — MOOC

Machine Learning Engineering for Production (MLOps) Specialization	*Issued July 2022*
Machine learning engineer nanodegree	*Issued March 2021*
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: Chat room web app that classifies insults messages by using several classifiers.
- 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).