Wilmer A. Gonzalez S. 🔗

Machine learning engineer
Caracas, Venezuela.
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EXPERIENCE

- **Sigma**   (remote) Caracas, VE
Senior Machine learning engineer   *June 2023 - Present*
  - Enable content validation for an ad-tech company.

  Technologies: GCP, Python.

- **Brightflow.AI**   (remote) Caracas, VE
Machine learning engineer   *May 2023 - Present*
  - Enable usage of industry data and models to enhance financial metrics for business owners.

  Technologies: AWS, Python, Athena.

- **CircleUp (Acquired by Brightflow.AI)**   (remote) Caracas, VE
Machine learning engineer   *August 2021 - June 2023*
  - 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.

  <u>Technologies</u>: 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.

  <u>Technologies</u>: 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).