Wilmer A. Gonzalez S.

wilmeragsgm@gmail.com
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</> Python, R
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EXPERIENCE

- **UNDP (ONU)** — Caracas, VE
  Data Science Consultant — *August 2019 - Present*
  - Designed and develop workflows for topic modeling and community detection to analyze hundred-thousand-scale text and network data.
  - Sped up the analytical workflow by 75% by redesigning the sampling strategy for jobs.
  - Generated CLI tool for automation of predefined analysis workflows.

  Technologies: Python, R, Bash, Gephi and Power BI.
  Theory: Topic modeling, Community detection, Network Analysis and NLP.

- **Quash.ai** — (remote) Caracas, VE
  Machine learning engineer — *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** — (remote) Caracas, VE
  Machine learning engineer — *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.

- **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) — *April 2015 - February 2018*
  Data Mining (Teaching assistant) — *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.

- **Fetcher** — Caracas, VE
  Data Scientist — *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**   Caracas, VE

  Artificial Intelligence   *July 2016 - January 2017*

  Artificial Intelligence intern   *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.

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

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*

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.

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).

Not clickable anymore.

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.