Wilmer A. Gonzalez S.

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wilmeragsgh </> Python, R Get dark theme

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.
- o Sped up the analytical workflow by 75% by redesigning the sampling strategy for jobs.
- o Generated CLI tool for automation of predefined analysis workflows.

Technologies: Python, R, Bash, Gephi and Power Bl.

Theory: Topic modeling, Community detection, Network Analysis and NLP.

Universidad Central de Venezuela

Caracas, VE

Advanced topics in AI(Adjunct Professor)

October 2018 - Present

- o Designed and organized course material and resources for topics described in here.
- o 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

- o Designed and organized practical course material and resources for topics described in here.
- o 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

(remote) Caracas, VE

July 2020 - November 2020

Data engineer

- o Helped to create a container image for provisioning Airflow instance.
- o 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.
- o Created dynamic DAGs for importing google analytics.

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

Theory: Data pipelines orchestration, ETL, Provisioning.

Quash.ai

(remote) Caracas, VE

February 2019 - March 2020

Machine learning engineer

- o 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.

• Fetcher Caracas, VE

Data Scientist

- o 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 Artificial Intelligence intern July 2016 - January 2017 February 2016 - July 2016

June 2018 - February 2019

- o Performed social network analysis, exploratory data analysis, supervised and unsupervised learning.
- o 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

Caracas, Venezuela

Sept. 2012 - Jun. 2018

B.Sc in Computer Science

- Took elective courses on: Introduction to data science, Advanced topics in data science, Artificial Intelligence, Data mining, Text mining, NoSQL databases, Digital image processing.
- o (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).