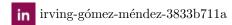
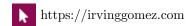
IRVING GÓMEZ MÉNDEZ







Summary

I am a mathematician that merges the experience in applied statistics and data science with a solid theoretical background in statistics (Regression, Inference, Multivariate Analysis, etc.) and machine learning (Random Forests, Neural Networks, SVM, Recommender Systems, etc.) who enjoys passing from theory to development of tech products.

A portfolio of past and current projects can be found at https://irvinggomez.com/#projects

Computing Skills

Programming Languages: Python, Julia, R

Data Visualization: Plotly, Tableau, Shiny, ggplot2

Deep Learning: TensorFlow Big Data: Pyspark

Other Data Analysis: SPSS, Google Analytics Other Languages: LATFX, HTML, CSS, SQL

Professional Experience

OPI Analytics

Sr. Data Scientist

August 2020 - December 2020

- Development and improvement of end-to-end projects for sale's forecasts.
- Monitor and validation of building blocks.
- Automation of data science processes.
- Validation of pricing strategies.

Centro de Investigación en Matemáticas

PhD Candidate in Probability and Statistics

August 2016 - December 2020

- Research and implementation of algorithms to handle complex missing mechanisms using random forests.
- Implementation of algorithms to actively querying missing information for recommender systems using neural networks.

In collaboration with Inria Lille-Nord Europe.

• Development of new methodologies based on non-exhaustive classification for detection of illegal traffic of species in America.

In collaboration with Cinvestav-Irapuato.

• Teaching assistant in undergraduate and graduate subjects.

MSc in Probability and Statistics

August 2014 - July 2016

- Design and development of a graphical user interface for inspection data in reliability.
- Implementation of methodologies for control quality with heavily censored data.
- Statistical consulting for the automotive industry, improving its warranty management.
- Reliability analysis for the food industry, increasing preference of consumers.
- Teaching assistant in undergraduate and graduate subjects.

PESiSa

External Advisor

January 2014 - July 2014

- External advisor responding directly to the engineer direction.
- Improvement of control quality systems.
- Design of lean manufacturing projects.
- Implementation of 5S processes.

Academic Qualifications

PhD Candidate in Probability and Statistics
Thesis: Random Forests and Autoencoders with Missing Data, under the direction of Dr. Emilien Joly
Research stay
Actively Querying Missing Information Using Neural Networks, on collaboration with Dr. Jill-Jênn Vie
MSc in Probability and Statistics Centro de Investigación en Matemáticas (CIMAT), Guanajuato, Mexico
Mathematical Engineer
Exchange Student

David Sprott Award, 2015

Annual prize granted by Centro de Investigación en Matemáticas (CIMAT) to the best master's exam in the area of statistics.

Conferences Attended

07/2018

XXVIII Annual Conference of the International

Environmetrics Society, Guanajuato

09/2017

I School of Data Science, Cuernavaca

09/2015

XXX National Forum on Statistics, Acapulco

03/2014

XII School of Probability and Statistics, Guanajuato

Conferences Given

03/2020

Inria Sequel Seminar, Lille

Some ideas for random forests with missing values 01/2020

TRIPODS workshop CIMAT-University of Arizona, Guanajuato

Some ideas for random forests with missing values 05/2019

Probability and Statistics Seminar CIMAT, Guanajuato Regression with missing data using random forests

Certifications

 $Google\ Analytics$

Toyota Production System

Data Sets with SQL

 $SQL\ for\ Data\ Science$

Statistical Analysis with SPSS

Languages

Spanish	Native
Portuguese	Fluent
English	Fluent
French	Basic
Russian	Basic