



Félix Ernesto Charry Pastrana

DATA ANALYST · MASTER OF SCIENCE · PHYSICIST

Viaducto 38, 101, Benito Juárez, PC 03010, Mexico City, Mexico · Willing to relocate? Yes!

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"Many years later as he faced the firing squad, Colonel Aureliano Buendía was to remember that distant afternoon when his father took him to discover ice" — Gabriel García Márquez.

Profile

I am a data analyst and **Python** programmer with a background in **simulation** and **modelling**. I have acquired this experience throughout my working career (**Machine Learning** models: the probability of drop-out - Python, records in web pages - Python), academic (detector modelling - C++, simulation of nuclear reactions - FORTRAN, creation elemental composition - R) and numerous courses.

At present, **I am looking to expand my experience as a data analyst - Back End**, willing to learn new knowledge and provide the most reliable programming and statistical level. I am a committed and team worker (Graduated with Honors and Outstanding TeamWork, Ministry of Information Technologies and Communications of Colombia).

Experience

TheMadFox - Colombia

COLLABORATION IN THE DEVELOPMENT OF SOFTWARE AND DATA SCIENCE PROJECTS

- Download data from API, merge it, filter it and create a end-point using Django
- Extract information from html files and create features
- Analyze and interpret the data and build-optimize the machine learning model

Remote Work

April 2021 - May 2021

TheMadFox - Colombia

FREELANCE: TRANSLATE OF AUTONOMOUS ROUTINES BUILT IN R INTO PYTHON. THIS INCLUDES

- Download and merge data using API.
- Extrapolate data.
- Create plot reports using Python - Plotly.

Remote Work

November 2020 - January 2021

Data Science for All (DS4A) - Remington University (Colombia)

DATA ANALYST: PREDICT THE DROPOUT PROBABILITY OF A STUDENT USING DATA FROM 1996 TO 2020. PYTHON AND R.

- Define and extract the dropout variable.
- Clean and merge the data.
- Define the Machine Learning Model (Random Forest).
- Locate the data and the model into AWS (EC2).
- Show and use the model in a Front End (Shiny - R).

Remote Work

August 2020 - November 2020

UNAM

SCIENCE PROGRAMMER: SIMULATION OF THE EFFICIENCY ϵ OF AN HPGE DETECTOR USING MONTECARLO (C++) AND EXPERIMENTAL DATA.

Mexico City, Mexico

January 2018 - June 2018

Skills

Main Python, R, \LaTeX , C++, Git, Django

General FORTRAN, PostgreSQL

Languages Spanish (Native), English (Advanced level)

Education

Ministry of Information Technologies and Communications of Colombia and Correlation One

FALL 2020 DATA SCIENCE FOR ALL

- Graduated with Honors and Outstanding Teamwork.

Colombia

August 2020 - November 2020

UNAM (Universidad Nacional Autónoma de México)

MASTER OF SCIENCE DEGREE (PHYSICS), **HONORABLE MENTION**

- Thesis: Unification of gamma, beta and carbon-nitrogen spectrometry measurements for composition simulation and efficiency correction of aquatic sediments, R.

Mexico City, Mexico

January, 2017 - June, 2019

Universidad Nacional de Colombia

BACHELOR'S DEGREE IN PHYSICS

- Thesis: Systematic analysis of nuclear reactions of alpha particles, FORTRAN.

Bogota, Colombia

July, 2010 - June, 2016

E-courses

University of Michigan

SPECIALIZED PROGRAM: *Applied Data Science with Python*

- Introduction.
- **Machine Learning.**
- **Text Mining.**
- (In process) Plotting, Charting & Data Representation.
- (In process) Social Network Analysis.

coursera.org

University of Michigan

SPECIALIZED PROGRAM: *Web Applications for Everybody*

- Introduction to Structured Query Language (**SQL**).

IBM

SPECIALIZED PROGRAM: *Advanced Data Science with IBM*

- Fundamentals of Scalable Data Science. **PySpark.**

coursera.org

May, 2021

coursera.org

May, 2021

Investigation Groups

Global and Climate Change Group

INSTITUTO DE CIENCIAS DEL MAR Y LIMNOLOGÍA - UNAM

Mexico City, Mexico

January 2018 - December 2019

Isotopic Geochemistry and Radiochronology Laboratory

INSTITUTO DE CIENCIAS DEL MAR Y LIMNOLOGÍA, CAMPUS MAZATLAN - UNAM

Sinaloa, Mexico

June 2018 - August 2018

Research Stay

OAK RIDGE NATIONAL LABORATORY

Tennessee, USA

June 2016 - August 2016

Nuclear Physics Group

UNIVERSIDAD NACIONAL DE COLOMBIA

Bogota, Colombia

June 2014 - December 2016

Articles

- Systematic analysis of α elastic scattering with the Sao Paulo potencial, AIP Conference Proceedings 1753 (2016)
- Synthesis, structural and morphological characterization of the perovskite LaYbO_3 , J. Physics. Conf. Series. 687 012104 (2016)