Félix Ernesto **Charry Pastrana**

Data Analyst · Master of Science · Physicist

Narvarte Oriente, Benito Juárez, PC 03010, Mexico City, Mexico · *Willing to relocate? Yes!*

☐ (+52 1) 55 8478 81 95 | ✉ charrypastranaernesto@gmail.com | ⌨ ernestocharry/portfolio | in ernesto-charry-pastrana

"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.

Data analyst and **Python** programmer.

Working career: **Machine Learning** models - Python. Academic: detector modelling, simulation of nuclear reactions, elemental composition.

I am looking to **expand my experience** as a data analyst, willing to learn new knowledge and provide the most reliable programming and statistical level. Committed and team worker.

Experience

TheMadFox - Colombia   *Remote Work*

Collaboration in the development of software and data science projects   *April 2021 - May 2021*

- 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

TheMadFox - Colombia   *Remote Work*

Freelance: Translate of autonomous routines built in R into Python. This includes   *November 2020 - January 2021*

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

Data Science for All - Remington University   *Remote Work*

Data Analyst: Predict the dropout probability of a student using data from 1996 to 2020. Python and R.   *August 2020 - November 2020*

- 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).

Universidad Nacional Autónoma de México   *Mexico City, Mexico*

Science Programmer: Simulation of the efficiency ϵ of an HPGe detector using MonteCarlo (C++) and experimental data.   *January 2018 - June 2018*

Skills

Main	Python, R, LaTeX,
General	FORTRAN, PostgreSQL, C++, Git, Django
Languages	Spanish (Native), English (Advanced level)

Education

Ministry of Information Technologies and Communications of Colombia and Correlation One   *Colombia*

Fall 2020 Data Science for All   *August 2020 - November 2020*

- Graduated with Honors and Outstanding Teamwork.

Universidad Nacional Autónoma de México   *Mexico City, Mexico*

Master of Science Degree (Physics), **honorable** Mention   *January.2017 - June.2019*

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

Universidad Nacional de Colombia   *Bogota, Colombia*

Bachelor's Degree in Physics   *July.2010 - June.2016*

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

E-courses

University of Michigan   *coursera.org*

Specialized Program: *Applied Data Science with Python*

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

University of Michigan   *coursera.org*

Specialized program: *Web Applications for Everybody*   *May, 2021*

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

IBM   *coursera.org*

Specialized program: *Advanced Data Science with IBM*   *May, 2021*

- Fundamentals of Scalable Data Science. **PySpark**.
- (In process) Advanced Machine Learning and Signal Processing.

DeepLearning.AI   *coursera.org*

Specialized program: *Deep Learning Specialization*   *June, 2021*

- (In process) Neural Networks and **Deep Learning**.

DeepLearning.AI   *coursera.org*

Specialized program: *Machine Learning Engineering for Production (MLOps)*   *June, 2021*

- (In process) Notificaciones Introduction to Machine Learning in Production.