Daniel Ricardo Zapata Sanabria

External Candidate

## Summary

MS in Economics, bachelor’s degree in economics and Finance and International trade. Advanced analytics and data mining techniques background on forecasting, predictive, and prescriptive models. Experience on programming language like R, Python, and Matlab. Strong quantitative skills and interests in machine learning, artificial intelligence, econometrics and applied statistics. Effective team member with the ability to meet deadlines and make sure that the highest standards of the organization are always maintained. Demonstrates in-depth analytical and strategic ability to problem solving. Speaks fluent spanish and english.

## Education

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| Year | Degree | Institution |
| 2019 | Master’s degree in economics | Universidad del Rosario |
| 2017 | Bachelor’s degree in finances and International Trade | Universidad del Rosario |
| 2017 | Bachelor’s degree in economics | Universidad del Rosario |

## Work Experience

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| Banco de Bogotá, Data Strategy Department – Analytics team  Data scientist  2017 to Present | * Developing effective A/B test marketing strategies on retail and insurance banking using propensity of purchase models. Higher products’s conversion rate is around 10% over the control group. * Apply different forecast and prescriptive models for customer support on over the counter transaction. Around 100 analysts use our BI dashboard to make better operational decisions on commercial bank branches. * Building different analytical models for better data driven decision-making and improvement of banking process * Improve understanding of customer lifecycle using recommender systems, predictive churn models, and product utilization KPI. |
| Datanalytics.ai  Chief Data Scientist and CO founder  2017 to Present | * We provided analytics solutions applying machine learning, data mining and time series analysis. We have built a model’s ecosystem including general forecast engines, recommender systems, and churn and default risk models appropriate for retail and marketing companies, banks, financial institutions, and government agencies; monitoring change requests and maintenance / enhancement of applications. * Part of Bogotá AI project organized by City.AI and sponsored by Camara de Comercio de Bogotá (the Chamber of Commerce of Bogotá). We offer courses and consulting in marketing analytics and data science to financial software companies. * Judge on the first hackathon on technological financial solutions using artificial intelligence organized by the Colombian software federation (Fedesoft) and the Chamber of Commerce of Bogotá. |
| Ministerio de Comercio, Industria y Turismo  Economic analyst, Economic studies Office  August 2017 to December 2017 | * Empirical research on commerce, tourism and industry applying statistical and econometric techniques to support public policy decisions focusing on innovate international trade understanding using complex network analysis. * Programming automatic reports on different economic sector about exports, imports, and trade balance using R and LaTeX. |
| Banco de la República  Teacher assistant, Advance economic course for professors June 2017 to july 2017 | * Support and motivate 29 professors from different universities around the country on microeconomics topics. * Prepared class material and support learning process making problem sets. |
| Banco de la República  Assistant research, intern  2016 to 2017 | * Co-autor of working paper "Clustering and forecasting inflation expectations using the World Economic Survey: the case of the 2014 oil price shock on inflation targeting countries" published by “Borradores de economía del Banco de la República”. * Research support about inflation expectation behavior of inflation targeting countries using machine learning techniques. * Obtaining reliable forecasts of inflation expectations, relevant to the monetary policy in the Central Bank of Colombia |
| Universidad del Rosario  Course assistant in economic growth and calculus  July 2014 to December 2014 | * Tutor students and assists with assignments and lectures. Manage class size of nearly 40 people. * Assist in grading problem sets, also 90% of the students successfully passed the course. |

## Technical Skills

* R
* Python
* Stata
* Matlab
* Microsoft Office
* LaTeX

## Language Proficiency

* English
* Spanish