Georges Bournigal

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SKILLS

PROGRAMMING
Multiple projects
• Python • R • SQL
Familiarity
• Javascript • HTML • CSS

TOOLS
• Pandas • Numpy • Scikit-learn • Tensor-Flow Extended • Airflow • CLI • Git • Streamlit • Dash • Tidyverse • Networkx • XGBoost • LightGBM

FURTHER EDUCATION

PyCon 2024
Travel Grant Awarded
May 2024 - Pending

Python Core
Jetbrains Academy
November 2022

Machine Learning Engineering for Production (MLOps) Specialization
Coursera, DeepLearning.AI
July 2022

Applied Data Science with Python Specialization
Coursera, University of Michigan
October 2021

LINKS

Personal website:// **gbournigal.github.io**
LinkedIn:// **georges-bournigal**
Github:// **gbournigal**

RESEARCH

- Predicción del Default en Carteras de Crédito: Un Enfoque de Machine Learning (ML) (2022): **bancentral**
- Riesgo de crédito en la República Dominicana: Estudio de matrices de transición (2021): **sb.gob.do/publicaciones/publicaciones-tecnicas/**
- Analyzing tweets of US Senators: Ideology and Communication during Political Competition (2020). Available upon request.

EXPERIENCE

SENIOR RESEARCH SPECIALIST Banking Superintendency
Dec. 2020 – Present

- Development and training of Machine Learning (ML) models using diverse methodologies to predict credit scoring and model transition probability.
- Development of data visualizations and analytics products from data extraction to analysis and presentation, employing technologies such as Streamlit and Dash.
- Simulation of the impact on provisioning requirements using transition probabilities generated by Machine Learning models.
- Leveraging Airflow to monitor and supervise execution processes, including scraping tasks, model execution, and database jobs.
- Conducting academic research and working papers with the aim of increasing knowledge production on the financial system.
- Incorporation and maintenance of new data sources into the department's Oracle databases.
- Automation of information extraction from web sources through Web Scraping, using R/Python.

SENIOR ECONOMIST Commercial Banks Association
Sep. 2020 – Dec. 2020

- Coordinate the automation process of current situation reports and creation of a daily indicators platform.
- Automate data query and consumption.
- Improve and consolidate surveys for internal consumption by the Associated Banks.
- Write articles of interest and plan future research and projects.

ANALYST Analytica Empresarial
Sep. 2018 – Jul. 2019

- Data analysis for businesses. Generate and maintain models to predict the behavior of economic variables in the Dominican Republic.
- Consult databases and generate monthly reports.
- Present data and dashboards for both managerial and public consumption using Tableau.

EDUCATION

M.A ECONOMICS University of British Columbia
Aug. 2019 – Aug. 2020 | Vancouver, Canadá | 4.3/4.33

BACHELOR'S DEGREE IN ECONOMICS Pontificia Universidad Católica Madre y Maestra
Aug. 2015 – Aug. 2019 | Santo Domingo, RD | Magna Cum Laude

ACADEMIC EXCHANGE, ECONOMICS Pontificia Universidad Católica de Chile
Aug. 2017 – Aug. 2018 | Santiago, Chile