Juan David Otálora

ML ENGINEER - DATA SCIENTIST

I'm a mathematical engineer and economist interested in machine learning and the application of mathematical models for solving real-life problems. I have experience working as a data scientist with financial models and as a consultant for the banking industry. I'm a very curious and responsible person who always wants to see the world in new ways and try different tools to solve problems. I have been trained to approach problem-solving in a systematic and organized way, applying quantitative models to advice companies to take better decisions.

EXPERIENCE

Backend Software Developer

Nov - Dic 2022 / Techstars (Miami, USA remote)

- Developed a centralized web app for Techstars, streamlining client data and contact search.
- Design and implement a database for the clients to improve the data flowing of the company.

TECH-STACK: React, FastAPI, MySQL, Pandas, NodeJS, SQLAlchemy

Data Scientist

Mar 2020 - Apr 2022 / Dataknow (Medellín, Col)

- Developed clustering models for client segmentation using RFM, and DBSCAN models for a cosmetics company as a consulting project in order to have a better understanding of their clients and adjust their marketing campaign.
- Worked for the Colombian bank Davivienda in the IFRS9 financial area to support and develop the data ETL to feed the risk models. I also supported the development of the rules for the categorization of risk clients.
- Due to a partnership with the Colombian bank Bancolombia in the client's quality center, I developed ETLs for the data flow of this area. I worked with high-volume data.
- Designed PowerBI dashboards for a Saas initiative that allowed companies to observe their clients in a segmented optic and keep track of their most KPIs.

TECH-STACK: SAS MIP, SAS Data Integration, SAS Guide, Hadoop, Impala, SQL, Excel, PowerBI

Data Analyst Intern

Jan - Jun 2018 / Protección (Medellín, COL)

- Supported and maintained the quantitative models for the analysis of the portfolios of the investment area.
- Implemented the translation of the automation tasks for rebalancing and updating the data of the portfolios from Visual Basic to modern programming languages (R and Python).
- Developed and maintained an R Shiny app for the econometrics models of the specialists, as the internship final project.

TECH-STACK: Visual Basic, Excel, R, Python, R Shiny

EDUCATION

- January 2015 – December 2019
  B.Sc. Mathematical Engineering
  EAFIT University

- July 2013 – August 2019
  B.Sc. Economics
  EAFIT University

- June 2022 – December 2023
  ML and Software Development
  Holberton School

CONTACT

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- otalorajuand@gmail.com
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- web page

COURSES

SAS Programming Complete; Learn SAS and Become a Data Ninja
Coursera (2020)

Machine Learning and Data Science with Python
Coursera (2020)

SKILLS

- FastAPI, Flask
- Keras, Tensorflow, Pytorch
- SQL - NoSQL (MongoDB)
- PowerBI, Matplotlib, Seaborn
- SAS DI, SAS MIP, SAS Guide
- Python, R, C, JavaScript, Matlab

LANGUAGES

English · C1
French · A2