Carlos Andrés Betancur Yepes.

Data Scientist | Senior Data Analyst.

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Trained scientist with strong skills for mathematical and computational statistical interpretation of complex industry problems, with relevant complementary training courses such as **SQL, Power BI**, and **Python** focused on library manipulation **(Pandas, JSON, RegEX)** for cleaning and organizing **structured** and **unstructured** data. Likewise, other tools for **Machine Learning** such as **Scikit-Learn, Transformers**, **Pycaret Numpy, Matplotlib** and **Seaborn** or **Deep Learning** tools such as **Tensorflow** and **Pytorch**.

EXPERIENCE

Data Scientist at ManpowerGroup Colombia (December 2023 - Present)

- I developed a customer experience comment **classification model**, where I implemented a **bagging-type model** using **machine learning algorithms**. Additionally, the **ChatGPT AP**I was utilized to enhance accuracy in categorizing comments into various categories. This project achieved a **significant improvement in the efficiency of the classification process**, receiving positive feedback for enhancing the understanding of comments.
- Consumption of APIs with **Python** for information extraction using **Web Scraping** techniques, **request** and **Beautiful Soup** librarys and manipulation of **JSON** format documents.

Data Analyst at ManpowerGroup Colombia (January 2023 – December 2023)

- I restructured a crucial **Power BI dashboard** for the company, focusing on operational costs and reducing the update time **from over 8 hours to just 3 minutes**. Through efficient data modeling and DAX programming, along with optimization of the ETL in Power Query, I streamlined access to key financial information, significantly enhancing the company's ability to make informed decisions regarding costs and operations.
- Development and Automation of **Power BI** dashboards integrated with tools such as **Python** and **SQL.**
- Consumption of APIs with **Python** for information extraction using **Web Scraping** techniques, **request** and **Beautiful Soup** librarys and manipulation of **JSON** format documents.
- Optimizing queries by applying advanced **Power Query** and **M languaje** usage for big data projects.

- Building advanced formulas in **DAX language** and designing interactive reports leveraging the various functionalities in **Power BI** visuals for **descriptive** and **predictive analytics.**

MY INDEPENDENT PROJECTS

About data mining, machine learning, and web scraping:
https://github.com/ndrsbtncr/My_Projects_ML

- In my repository, you can find projects about **natural language processing** such as **sentiment analysis** (NLTK, SpaCy, SciPy, TextBlob), **machine learning models** (Linear Regression, Decision Trees, Random Forest, Logistic Regression, Kmeans, Kprototypes), and **anomaly detection** related to cybersecurity (IsolationForest). I apply **probabilistic techniques** for device **survival analysis** and predict failure events. I've also created a Python and Selenium **Web Scraping** robot with an **executable .exe** for data extraction without using **APIs**.

MATERIALS SCIENCE RESEARCH GROUP, Universidad de Antioquia (June 2021 – December 2022)

- **Development of new theoretical studies** on optical layers of experimentally verified non-linear materials.
- **Implementation of news algorithms** for the solution of differential equations in Wolfram Mathematica languaje.

SKILLS.

- Python, Machine Learning, Deep Learning, C++, SQL, Power BI, Microsoft Excel, Power Pivot, Power Query, M languaje, Data Mining, Machine Learning, Matlab, Wolfram Mathemática, Mathematical and statistical modeling, intermediate English, basic German.

EDUCATION

PROFESSION

Universidad de Antioquia

- **Physics** (2014-2022)

  Achievement: I received an honor mention in the ninth semester as the physics student with the highest grade average.

CERTIFICATIONS

Universidad de Antioquia

- Big Data (April 2022 - November 2022)

MinTic

- Fundamentals of data analytics (November 2022 – January 2023)

Udemy

- Basic, Intermediate, and Advanced Excel. (December 2022 - December2022)
- SQL Server from beginner to advanced. (January 2023 – February 2023)
- Power BI from beginner to advanced. (January 2023 – April 2023)

REFERENCES

Senior Data Scientist Michal Hemmerling

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