

Juan Camilo Restrepo

Data Scientist/ Data Analyst

New Westminster, BC | 778-302-9919 | juan.restrepo.belalcazar@gmail.com | [LinkedIn](#) | [GitHub](#)

Profile Summary

I'm a final-year student in the Computer and Information Systems and Data Analytics Post-Baccalaureate program at Douglas College (long title, I know). My background is in theoretical physics, and I have professional experience as a Math and Physics teacher. My skill set includes programming in multiple languages, a good understanding of statistics, probability, machine learning, and AI in general (both theory and libraries), as well as database management with both relational and non-relational databases. I'm proficient with visualization tools such as Tableau and Power BI. I'm constantly learning about data science, AI, and software. I view the opportunity to work with Olympic Industries as a chance to grow professionally and contribute meaningfully to your mission of being a leader in providing sustainable, high-quality lumber and forest products, while fostering a culture of innovation and excellence.

Skills:

- **Technical:** **Programming Languages:** Python, Java, JavaScript, C#. **Statistics and Probability:** Deep understanding of statistical analysis concepts and how to extract information from data. **Databases:** Relational and non-relational Data base Management Systems, SQL server, MySQL, MongoDB. **Machine Learning:** Regression and classification techniques, deep learning as well as libraries with the algorithm's implementations and for general data processing (Scikit-learn, XGBoost, Tensor-Flow, Pandas, NumPy, SciPy, Matplotlib, etc.). **Data Visualization:** Power BI, Tableau.
- **Additional:** Proficient in Microsoft Office Suite (Excel, Access), with strong collaboration and communication abilities. Committed to continuous learning and effective problem-solving. Demonstrated ability to work effectively in team environments and adapt to diverse business settings.
- **Languages:** Spanish (Native), English (Fluent).

Education

Computer And Information Systems (PB Diploma) - Data Analytics | August 2024 (Expected graduation)

Douglas College, New Westminster, BC

Relevant coursework: Fundamentals of Data Analytics ([Big Data](#), [Python](#), [Classification and Regression techniques](#)), Special Topics in Data Analytics ([State of the art techniques in Big Data and Data Science](#)), Database I ([SQL and Database Design](#)), Data Visualization([Tableau](#), [Power Bi](#)), Business Statistics I ([Hypothesis testing and data distributions](#)), Business Statistics II ([predictive and prescriptive analysis, time series, forecasting](#)), Database II ([Advanced Features in DB Systems, NoSQL, MongoDB](#)), Fundamentals of Machine Learning in Data Science ([Python, Machine Learning, Data manipulation, standard ML libraries](#)), Advanced Integrated Software Development ([Java](#)), Full Stack Development with JavaScript ([JavaScript, React, Express, Restful APIs](#)), Data Structures and Algorithms ([Java](#)), Software Engineering ([Java, Spring Framework, JavaScript and Vue.JS, Unit testing, Agile development Methodologies](#)), System Analysis & Design (SDLC), Multimedia Web Development ([HTML, JavaScript, CSS, Bootstrap](#)), Introduction to Programming ([C#](#)).

Physicist (BSc in Physics) | June 2017

Universidad del Valle, Cali, Colombia

Undergraduate thesis: "General Formalism of Gravitational Perturbations and Calculation of the Scalar Spectral Index in Slow-Roll Type Cosmic Inflation Models."

Additional Relevant Education

- Supervised Machine Learning: Regression and Classification - [DeepLearning.AI](#) & [Stanford University](#), [Coursera](#)

- Cleaning Data in Python • Statistical Thinking in Python • Machine Learning with scikit-learn • Preprocessing for Machine Learning in Python • Analyzing Marketing Campaigns with pandas • Machine Learning for Marketing in Python
- Building Recommendation Engines in Python • Unsupervised Learning with Python - **Data Camp**

Data related projects

Flight Price Prediction Model:

- Leveraged data preprocessing and cleaning techniques to optimize the dataset for analysis.
- Engineered a robust flight price prediction model utilizing Python and key libraries (Pandas, NumPy, Matplotlib, Scikit-Learn).
- Implemented machine learning and statistical methodologies to uncover hidden patterns and relationships within the data.
- Crafted insightful visualizations to illustrate the data under study and evaluate the performance of the constructed models.

Employee Productivity Analysis

- Led a small team in the creation of a comprehensive management report focussed on employee productivity.
- Conducted hypothesis testing over leading factors driving productivity among the company.
- Employed Model Building techniques and regression analysis to predict employee productivity, considering both qualitative and quantitative factors.
- Used Excel and Power BI to build visualizations and Dashboards to convey the story behind the data.
- Effectively used Project management tools to keep track of the team performance, contribution and overall progress.

Professional Experience

Bilingual High-school Physics Teacher | Redcol Holding, Colombia (August 2021 - March 2022):

- Innovatively implemented a comprehensive physics curriculum in English, introducing effective communication strategies that significantly improved learning outcomes.
- Conducted strategic segmentation of lesson plans to address diverse student needs, applying analytical and problem-solving skills.
- Achieved an impressive 11% increase in average physics scores on national examination tests through a user-centric teaching approach.
- Collaborated seamlessly with a multidisciplinary team, showcasing strong teamwork and communication abilities.

Teacher and Academic Coordinator | Universidad del Valle (August 2017 - July 2018):

- Developed and documented educational guidelines, contributing to enhanced course understanding for both students and teachers.
- Orchestrated and executed innovative experiences and labs to facilitate better comprehension of course subjects.
- Applied an object-oriented approach to lesson planning for improved student engagement.

Physics and Math Teacher | Grupo Hermanos Pardo (January 2018 - August 2021):

- Provided dynamic leadership within the physics division, fostering a collaborative and results-driven environment.
- Conducted strategic data analysis to evaluate test reliability and relevance, contributing to data-driven decision-making.
- Employed data gathering and statistical analysis skills to ensure accurate evaluation, maintaining a detail-oriented approach to data collection and analysis.

Awards/Honors:

Douglas College: Summer 2022 Honour Roll, Fall 2022 Honour Roll, Winter 2023 Honour Roll, Dean's List Fall 2023. Current Cumulative GPA 3.80.

Universidad del Valle: 5-time winner of the Award for Academic Achievement. GPA: 4.21/5.0