**Juan Camilo Restrepo**

**Data Science Intern**

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**Profile Summary**

I’m a final year student of Computer and Information Systems and the 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 set of skills includes programming in multiple languages, a deep understanding of statistics, probability, machine learning, and AI in general (both theory and libraries), database management with both relational and non-relational databases, and visualization tools such as Tableau and PowerBI. I’m constantly learning about data science, AI, and software, and I see the opportunity to work with your company as both an opportunity to grow as a professional and a chance to contribute in a meaningful way to your mission of shaping a better tomorrow by connecting people with water and energy.

**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 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 SpectralIndex 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**

* Leaded 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