Hair Albeiro Parra Barrera

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| DataCamp: <https://www.datacamp.com/profile/jairparra> | Portfolio Blog: [https://blog.jairparraml.com/](https://blog.jairparraml.com/?fbclid=IwAR2lWOE06BQPmPnBjRf5dTQrEglxjCIGQ2WOhv612ZxExqN_zCmJ1Aacs2k) |
| Porfolio (Building): <https://jaiparraml.com> |  |

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| **WORK HISTORY** | | | |
| **NLP & Data Science Research Assistant** | **DemoTip Lab** | May 2019 – February 2020 | |
| - Perform research and tests on NLP tools with libraries such as Python re, nltk, spaCy, genism, translator, spellchecker, and R quanteda, spacyR, etc. for treatment of English, French and Spanish. Perform lab-project-related linguistic research. | | | |
| - ***Lexicoder Lemmatizer :*** Create and implement NLP algorithms for lemmatizing, extending and improving lexical sentiment dictionaries in English, French, Spanish and Italian; Perform and implement metrics and testing in R with Quanteda. | | | |
| **Private Tutor** | Self-Employed | September 2016 - Present | |
| - Tutored Calculus I,II,III, Linear Algebra, Probability & Statistics, Python, R and Discrete Mathematics.  - Tutored modern languages such as Mandarin Chinese, Spanish, French and Japanese | | | |
| **EDUCATION** | | | |
| **McGill University** | **Montreal, QC** | September 2016 – May 2020 | |
| - B.A. **Computer Science** with triple minor in **Statistics**, **Linguistics** and **East Asian Languages**, CGPA: 3.56. | | | |
| ***Computer Science***  Python; R; SQL; Bash; Git/Github; Java; C; O-Caml; OOP**; Algorithms and Data Structures**; Theory of Computation; **Applied Machine Learning**; **Natural Language Processing; Database Systems;** Introduction to Computer Systems;; Programming languages & Paradigms (**OOP** ,**Functional programming**),. | ***Mathematics***  Calculus I, II, III; Linear Algebra & Geometry; **Honours Applied Linear Algebra;** **Probability ; Mathematical Statistics**; Discrete Mathematics; **Honours Regression & Analysis of Variance**. **Stochastic Processes (Self-study); Generalized Linear Models (GLMs); Time Series**. Self-study abstract algebra & analysis. | | ***Linguistics***  General Linguistics; Phonetics; Phonology; **Semantics, Theoretical Syntax & graduate-level Syntax**, Formal Logic. |
| **Vanier College** | Montreal , QC | August 2014 – Jun 2016 | |
| - DCS / D.E.C. Languages and Cultures , **Honour Roll** (2014-2016), **Dean’s Honour Roll** (Winter 2014, Autumn 2014). | | | |
| **TECHNICAL SKILLS** | | | |
| **Programming Languages ,Technologies & Skills:** | | | |
| **-***Proficient:* **Python** (Numpy, Pandas, Matplotlib, Seaborn, re, nltk, spaCy, genism, flair, scikit-learn, Tensorflow, others) ; **R/RStudio** ( ggplot2, forecast , Quanteda, spacyR) ; **SQL (**MySQL, PostgreSQL, DB2**)**, **Bash**/Shell, **Git/Github;**  *-Familiar:* **Java**; **C**; C++ (Elementary), HTML & CSS (Elementary), OCaml ; **Microsoft Office** (Word, Excel, Powerpoint).  **- Excellent analytical, communication , problem solving, collaboration & team skills. Autodidactic.** | | | |
| **Human Languages (7-fluent):** | | | |
| **- Spanish** (Native), **English** (Bilingual), **French** (Bilingual) , **Mandarin Chinese** (Intermediate), **Japanese** (Intermediate), **Italian** (Intemediate), **Portuguese** (Intermediate), Russian (Elementary), Cantonese (Elementary), Korean (Elementary). | | | |
| **PROJECTS** | | | |
| **- Modified MNIST: State-of-the-art Exploration** <https://github.com/JairParra/Modified_MNIST_state-of-the-art_exploration>  - **LDA Centroid-based Summarization:** <https://github.com/JairParra/LDA_centroid_based_summarization>  **- Kaggle\_Reddit\_Multiclass\_Classification** <https://github.com/JairParra/Kaggle_Reddit_Multiclass_Classification>  - **ML Reproducibility Challenge:** <https://github.com/JairParra/ML_Reproducibility_Challenge>  - **Implementing Logistic Regression & LDA from scratch:** <https://github.com/JairParra/Logreg_LDA_from_scratch>  - **NLPChallengeAI4Good:** <https://github.com/JairParra/NLPChallengeAI4Good>  - **Perceptron NN from scratch:** <https://github.com/JairParra/Perceptron_NN_from_scratch>  - **Portfolio (building):** <https://jaiparraml.com>/  **- Blog-portfolio:** <https://blog.jairparraml.com/> | | | |