

Diego Burgos

LinkedIn
Universidad Pedagógica y Tecnológica de Colombia (UPTC)
Portfolio

linkedin/diegoandresburgos/
ciencias.basicas@uptc.edu.co
<https://diegoburgosthephysicist.com/>

Relevant skills

- I am an experienced practitioner skilled in various areas including data analysis, data science, the application of emerging technologies, design research and experimentation, and lean product development.
- Career apprentice focused on creative and straightforward solutions, based on data and the scientific method.
- Effective visualizations / design for comprehension / storytelling through data sets.
- Qualitative and quantitative methods and approaches for statistical researches.
- Investigative data analysis applied with machine learning.
- Cleaning and sorting of data, driven with regular expressions, managing largescale of rows and columns of information.
- Soft skills: Fast learner, Relator, Achiever, in focus.

Technologies

- Jupyter notebook, Anaconda, Rstudio.
- R, Python, Oracle, Tableau, Spark.
- dplyr, tidyr, ggplot2, readr.
- caret (Classification and Regression Training), randomForest, glmnet(fitting generalized linear models)
- Relational SQL, NoSQL.
- Web scrapping, CSS, XPATH, rvest, playwrightr, Selenium, httr.
- Linux/Ubuntu, Git; Windows and MacOS.

Education

- Bachelor in Physics Universidad Pedagógica y tecnológica de Colombia Tunja, Colombia. Thesis: Data analysis to influence noise level for a radial distribution of emissivity in a plasma with cylindrical symmetry- 2021.
- Data Science Course (One-Year Program) Harvard University Program by edX. -2022
- Web Scraping Course (Four-month Program) Datacamp platform.-2023
- Data Manipulation with SQL Course (Four-Month Program), Intensive course focused on mastering SQL for data manipulation, querying, and analysis. Datacamp platform.-2023

Experience

- Title: Data Mining and Analysis Specialist (2018-2019)

Spearheaded the mining, sorting, and analysis of large volumes of data, utilizing advanced techniques including regular expressions in R and data stratification.

Accomplished Tasks:

Data Mining: Employed robust data mining methodologies to extract valuable insights from diverse datasets. Sorting and Cleaning, and preprocess data for further analysis. Regular Expressions with R: Leveraged R's powerful regular expression capabilities to efficiently search, extract, and manipulate data patterns. Data Stratification, in-depth analysis and pattern recognition.

<https://ieeexplore.ieee.org/document/8987491>

- Data Science Consultant Freelancer (2021-2022)

Providing consulting services and delivering data-driven solutions for clients.

Churn Prediction using Machine Learning: Developed a predictive model using machine learning algorithms to identify customers at risk of churn for a client's .

Customer Relationship Management (CRM) Enhancement: Worked closely with the client's CRM team to analyze and optimize their customer data management processes, enabling more effective customer segmentation and personalized marketing strategies.

Data Analysis and Insights: Conducted exploratory data analysis on large datasets, extracting valuable insights and patterns to drive actionable recommendations for business growth and customer engagement.

- Data Parsing and Analytics Project for Construction Works Company. ALDB associates (2023- Present)

Led a project focused on parsing and analyzing thousands of reports collected from construction works in operation, with the goal of providing insightful analytics by category and company.

Using advanced data analytics techniques to generate informative charts and visualizations, showcasing key metrics such as the number of work stoppages, risk rates, and the frequency of warning signals encountered during site visits.

Generating monthly reports summarizing the parsed data and presenting the findings to construction companies, enabling them to make data-driven decisions and improve operational efficiency

Language

Native Spanish
Fluent English

July 4, 2023