Questionário Cientista de dados:

QUESTIONÁRIO:

1. What kind of data science projects were involved in, and what was your role in them?

**I have 2 years of master's degree in the field of data science and machine learning, taking part in optimization, classification, regression, deep learning and clustering projects. I worked at the company Data Science Brigade for 4 months, also working with data analysis and machine learning, where I only left because I received the proposal to come participate in a project in the cardiology department of the University of California Davis Medical Center, where I have been since October 2019, completing 1 year and 4 months. Here I participated in projects involving data science, social networks and health.**

2. What kind of models are you familiar with? Give examples of how you use them

**I am more familiar with clustering models, my thesis was on a new metric to assess the optimal number of clusters. Clustering, unsupervised learning, is a tool to understand data without labels, it is possible to retrieve information in the form of clusters and gain insights into the data, one of the possibilities is to better understand the characteristics of a customer pool, segmenting these customers into distinct clusters. I am also familiar with regression and classification models, which can be widely applied, but one example is to assess the impact of a drug in a randomized trial. With deep learning in computer vision, it is possible to detect diseases through radiographs.**

3. Can you explain the difference between Bayesian and Frequentist methodologies?

**To be succinct, the main difference is the prior probability. The Frequentist methodology uses data from an experiment to evaluate the outcomes, calculating the probability that the effect you see on your data is random (p value). The Bayesian methodology is based on a prior probability of the effect, which is subjective, and updates that probability based on new evidence.**

4. Do you have experience implementing code in production? How did you do it?

**At UCDavis, we implemented an social network intervention through Facebook, which included the automation of Ads with social targeting parameters derived from clustering models. The Ads also needed to be updated automatically every day to adjust their budgets given their engagement. The project included the use of Apache Airflow to automate daily tasks and the use of Facebook's business API to update the Ads.**

5. What are you looking for in a job?

**I look for a good working environment with a team that communicates and is concerned with projects. Also looking for a company that provides growth opportunities and cares for employees.**