

# **Bluebonnet Data**



Bluebonnet Data is a nonprofit organization whose mission is to “democratize” data. They recruit, train, and organize people with skills in coding and data science to volunteer on teams for progressive campaigns and causes.

## **Project Description**

A pillar of the Bluebonnet Data organization is their ability to quickly match teams of data analysts to provide direct support to progressive campaigns and organizations. These matches are extremely important in ensuring a positive experience for both the analysts and the client, and must take into account both the analysts’ skill sets and interest in the subject.

Currently, Bluebonnet has an algorithm that gives team match recommendations. However, it is not particularly robust. It requires a group to spend hours sifting through the automatically generated matches to take into account factors that the algorithm cannot. As the organization grows, this model is becoming less and less feasible. Bluebonnet believes that it is time to overhaul their recommendation algorithm completely, as well as determine a method for automatically adjusting the suggested matches.

Broadly, the project HDAG will engage with Bluebonnet Data would consist of:

1. The HDAG team will work to invent a new matching algorithm that takes into account both ranking preferences and team composition (skill sets, time zones, etc.).
2. The team will implement this algorithm in Python.
3. The group will utilize this algorithm to match real teams for Bluebonnets next engagement cycle, on April 20th.

## **Internal Partners:**

- Jake Jackson (Technical Director)
- Mariam Ahmed (Operations Manager)
- John Attisha (Deputy Data Director)

**Coding Languages:** Python

## **Specific Skills**

1. Algorithms: Creating matching algorithms using mathematical tools
2. Model Creation: Implementing a model that matches teams of analysts based on preferences and skill sets

Expected Technical Difficulty: **Intermediate**