

## Project proposal

### Specialty Coffee Prediction

How do you know the best quality specialty coffee?

Coffee is a beverage highly appreciated in all around the world due to its natural product with varied aromas and tastes. The cupping score is a score for a coffee quality graded with an expert called Q grader. The cupping score will decide if a coffee may be called as specialized.

#### The goal:

We are going to build a model will be used to predict the total cup point value, where this value determines whether a coffee product can be considered specialty coffee.

#### Dataset

The data set, originally uploaded from [Coffee Quality Database](#), was re-posted to [Kaggle](#)

The datasets have reviews from specialized reviewers for both coffees: Arabica and Robusta. The below information is provided in each dataset.

The data obtained is still in the form of raw data containing attributes such as company, mill, farm name, and the others.

The **features** used as input are the [country of origin](#), , [processing method](#), [moisture](#), [color](#), and [the plantation's altitude](#). These attributes were chosen according to the characteristics, varieties, and processing methods because these attributes were considered to describe the quality of the coffee beans.

Sample of data is shown in the following table:

Harvest. Year	Grading. Date	Color	Processing. Method	Moisture	Altitude	Country.of.Origin	Species
2014	April 4th, 2015	green	Washed / Wet	0.12	1950-2200	Ethiopia	Arabica

#### Tools:

Numpy, Pandas, Matplotlib, Seaborn, Sklearn

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\* The used features may be increased or changed and the model as well.