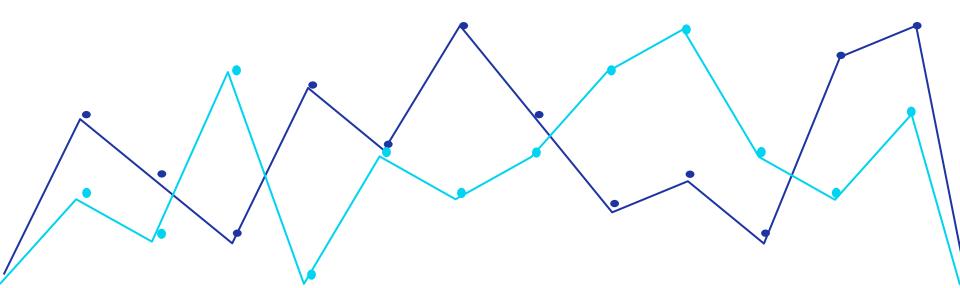
# Data Analysis Portfolio

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## **Professional Background**

As a detail-oriented and analytical professional with a strong foundation in finance and data analysis, i have a unique blend of experience in managing operations and driving business growth through data driven insights.

With a strong desire to delve deeper into data analysis, I decided to transition into a data analysis role, leveraging my financial expertise and passion for data story telling to drive business decisions. I am excited to bring my unique blend of operational and financial experience to this project and uncover actionable insights that drive success.



a global integrated energy company.

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## **Project Description**

### **Chocolate Bar Ratings**

Chocolate, a universally loved treat, sees an annual consumption exceeding 2.8 billion pounds in the United States alone, highlighting its significant market presence.

Hence this project is based on a comprehensive analysis of an extensive data set containing ratings for over 1,700 individual chocolate bar and other informative data, such as cocoa percentage, bean variety etc.

- This helps us to better understand:Where the best cocoa bean are grown
- The countries that produce the highest-rated bars
- The relationship between cocoa solids percentage and rating

#### Deliverable:

- A comprehensive report detailing of the findings.
- A presentation summary of the key insights.

### Impact:

This project aims to not only elevate the understanding of factors that contribute to high-quality chocolate bars but also to assist manufacturers and marketers in making informed decisions that could enhance product appeal and increase market share.

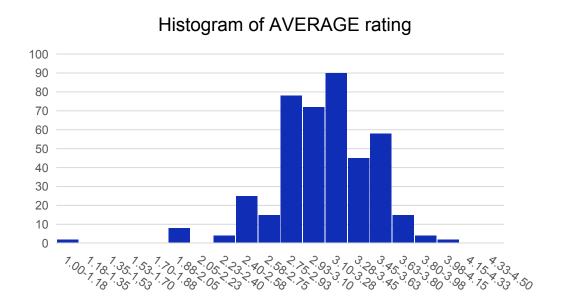


- I. What is the average rating and rating interpretations?
- II. What are the top 10 companies and their locations, with the highest ratings?
  - Bean region
  - Cocoa percentage
  - Cocoa variety(Bean types)
- III. Does cocoa percentage have an effect on ratings?
- IV. Does bean origin have any effect on rating as well?

# Findings & Insights



### 1. What is the average rating and rating interpretation?



## Flavors of Cacao Rating System:

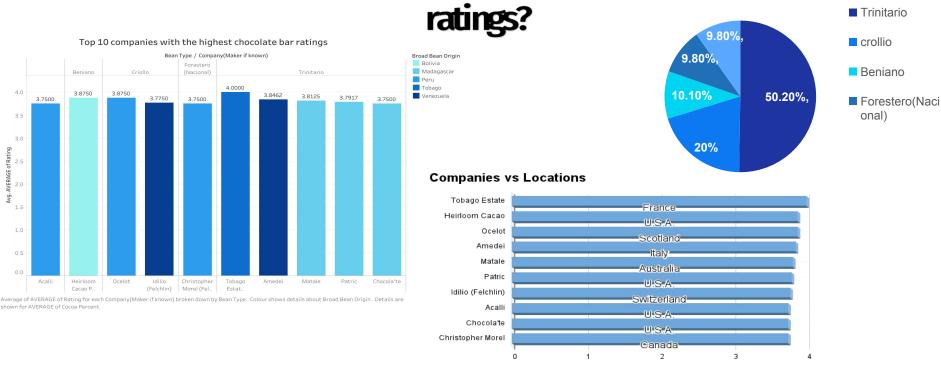
5= Elite (Transcending beyond the ordinary limits)

4= Premium (Superior flavor development, character and style)

3= Satisfactory(3.0) to praiseworthy(3.75) (well made with special qualities)

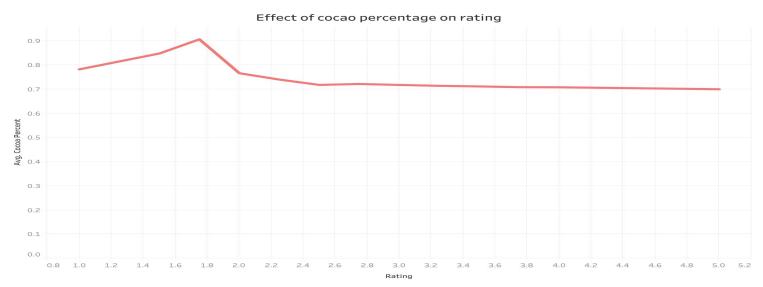
2= Disappointing (Passable but contains at least one significant flaw)
1= Unpleasant (mostly unpalatable)

The overall rating from customers on an average is a satisfactory (3.1-3.28). 2. Top 10 companies and location with the highest chocolate bar



- Tobago Estate ranks first as the highest-rated chocolate maker with an average rating of 4.00 (Premium) out of 5.
- ❖ The trinitario bean type seems to be the most predominant (50.2%) amongst other bean variety used by the top rated chocolate makers with the criollo(20%) following after.

### 3. Does cocoa percentage have an effect on ratings?

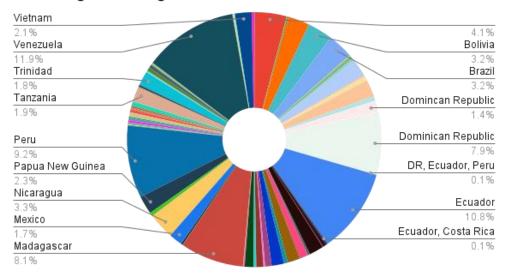


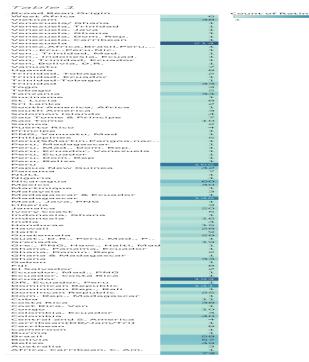
The trend of average of Cocoa Percent for Rating.

❖ From the data,chocolate bars that contains less amounts of cocoa got a rating of 4.00(Premium) and 5.00(Elite) while those that contain higher percentage of cacao got a rating of 1(Mostly unpalatable) and 2(Disappointing).

### 4. Does bean origin have an effect on rating as well?







Venezuela(11.9%), Ecuador(10.8%) and Peru(9.2%) are the countries with the highest rating count i.e the number of times people have done a rating.

# Summary and Recommended Actions



## **Summary Of Findings**

#### Average Rating:

✓ The overall chocolate ratings is satisfactory which hints at a fair experience and there are existing issues that must be addressed

#### ❖ Cacao Percentage:

- ✓ The average amount of cacao present in the chocolate bars for the top 10 companies with the highest rating ranges from 68% 73%.
- ✓ The higher the cacao percentage the lower the rating. Furthermore, it is shown that 70% is the ideal amount of cacao that should be used for a better appraisal.

### ❖ Broad Bean Origin:

- ✓ Four out of five bean types used by the top rated compaines had their bean origin in South America.
- ✓ The best cacao bean are grown in South America (Venezuela, Peru and Ecuador; which are in the northern parts of the continent).

#### **❖ Top Producing Countries**

They include;

✓ France, U.S.A, Scotland Italy, Australia, Switzerland and Canada in that order.

### **Recommended Actions**

#### **Marketing recommendations:**

There were some unknown bean types which appear to be in the top five highly rated bean types as well as the bean origin which are under-represented. Therefore, marketers should capitalize on highly-rated, lesser-known bean types by exploring their potential further through research and experiments. Additionally, sourcing beans from under-represented origins can differentiate products and appeal to consumers seeking unique flavors.

#### **Product Recommendations:**

❖ More focus should be on utilizing cacao bean from South America to improve ratings, Also adjusting cacao percentage to 70% as it is the ideal amount that should be employed to enhance flavor and for better appraisal and exploring bean types like the Beniano and Nacional bean type.

### Condusion

This project analyzes a vast data set of over 1,700 individual chocolate bars to uncover key insights such as optimal cocoa bean locations, top-producing companies, and the relationship between cocoa percentage and bar ratings. The deliverables include a comprehensive report and a presentation summary, aiming to inform manufacturers and marketers on how to enhance product appeal and increase market share in the chocolate industry.

## Thank You



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