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CSC 346: Introduction to Data Science

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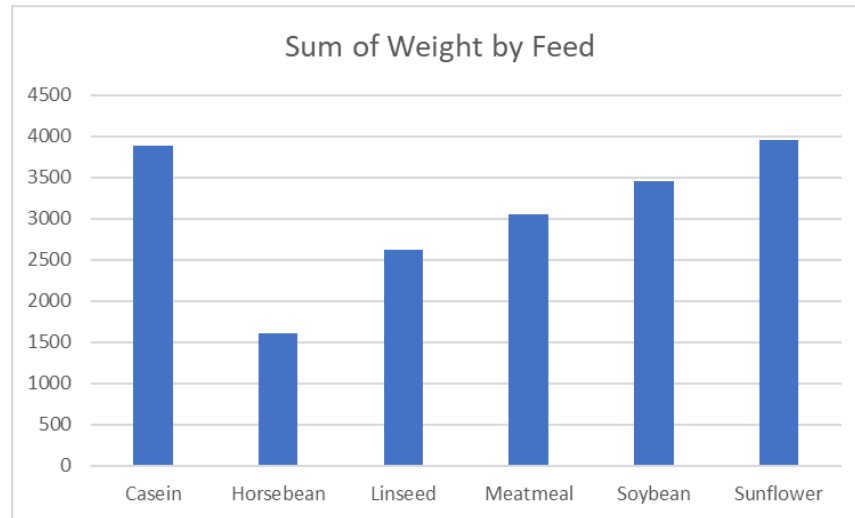
Project 1

Chicken Feed

Imagine you see yourself as the next Harland Sanders (founder of KFC) and want to learn about the poultry business at a much earlier age than Mr. Sanders did. You want to figure out what kind of feed can help grow healthier chickens.

Food Type	Min Weight	Mean Weight	Max Weight
Casein	216	323.6	404
Horsebean	108	160.2	227
Linseed	141	218.8	309
Meatmeal	153	276.9	380
Soybean	158	246.4	329
Sunflower	226	328.9	423

I downloaded the data from GitHub and analyzed it in Excel. I used Excel formulas to calculate the minimum, mean, and maximum values of the weights for each food type, as well as the sum of weights for each food type. I also created a graph from the sums of weights.



Based on the chicken feed data, which type of chicken food appears the most beneficial for a thriving poultry business? Explain your answer.

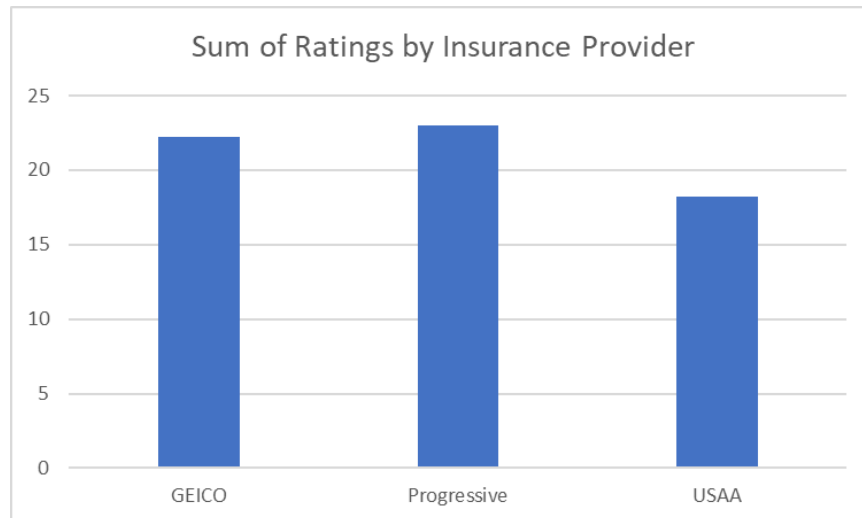
Based on the chicken feed data, the sunflower chicken food appears the most beneficial for a thriving poultry business. This is because the sunflower food has the highest weights in sum, minimum value, maximum value, and mean value so this type of food will create the most amount of chicken meat and allow the business to make more money. The casein food will also create chickens that weigh only slightly less than those that eat sunflower food.

Auto Insurance Providers

I created a table of the minimum, mean, and maximum values of the ratings of each auto insurance provider based on the given data.

Insurance Provider	Minimum Value	Mean Value	Maximum Value
GEICO	4.7	7.4	9.2
Progressive	6.7	7.7	8.9
USAA	3.8	6.1	8.1

I also used Excel formulas to calculate each of the values and make a graph of the sum of ratings for each auto insurance provider.



Determine if you had to choose an auto insurance provider based on these ratings, which one you would opt for. Explain your answer.

If I had to choose an auto insurance provider based on these ratings, I would opt for Progressive because it is the provider that is most likely to offer the best service. This is because it has the highest sum, minimum value, and mean value of ratings. GEICO had the highest maximum rating, but its minimum rating is 2.0 points below Progressive's maximum rating value.