

**MUGDHA YADA**  
Introduction to Data Science  
Assignment #1  
January 24, 2022

Problem1.

Project Goal: To analyze the data in excel by calculating the min, max and mean values of the weights and determine which chicken food is most beneficial for poultry business.

Methodology:

- By using dataset values of the chick weights of their feed type we calculate the maximum, minimum and mean of the weights and then pick the efficient one.
- Took the values which are in CSV format and then imported them to excel using Get external data field.

Observations:

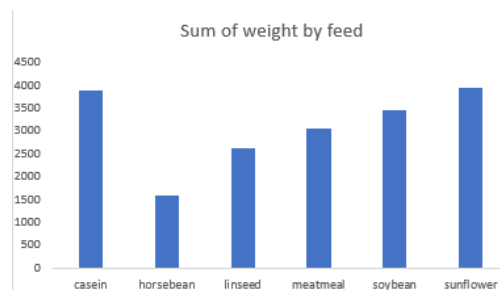
By observing the values of all the feed types:

- Sunflower has the highest maximum weight among all the feed types.
- Horsebean has the least minimum weight among all the feed types.
- Sunflower has the maximum mean weight among all the feed types.

Table: Summary of chicken weights according to food types.

Row Labels	Min weight	Max weight	Mean weight
casein	216	404	323.6
horsebean	108	227	160.2
linseed	141	309	218.8
meatmeal	153	380	276.9
soybean	158	329	246.4
sunflower	226	423	328.9

Graph: Sum of weight by feed



Results:

In Conclusion, by analyzing all the feed types, I feel sunflower feed type is more beneficial for thriving poultry business because it has maximum weight, maximum mean weight and maximum sum of weights.

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## Introduction to Data Science

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#### Problem2.

Project Goal: To analyze the data in excel by calculating the min, max and mean values of the ratings and determine which insurance provider can be chosen based on the ratings.

#### Methodology:

- By using dataset values of the ratings of the insurance providers we calculate the maximum, minimum and mean of the ratings and then pick the efficient one.
- Took the values into my excel spread sheet and then converted them to CSV format by saving them with the extension .csv.

#### Observations:

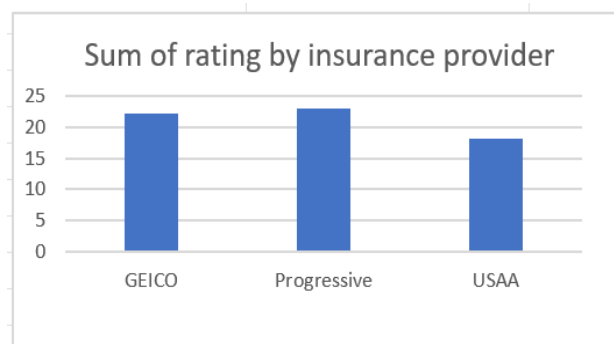
By observing the values of all the ratings:

- GEICO has the highest maximum rating among all the insurance providers.
- USAA has the least minimum rating among all the insurance providers.
- Progressive has the highest mean rating among all the insurance providers.

Table: Summary of ratings of the insurance providers.

Row Labels	Min Rating (out of 10)	Max Rating (out of 10)	Mean Rating (out of 10)
GEICO	4.7	9.2	7.4
Progressive	6.7	8.9	7.7
USAA	3.8	8.1	6.1
Grand Total	3.8	9.2	7.0

Graph: Sum of rating by insurance provider



#### Results:

In conclusion, by analyzing all the insurance providers, I would choose/opt progressive insurance provider because it has maximum mean rating, maximum Min Rating (out of 10) and maximum sum of ratings.