

Chanda Dunani

Introduction to Data Science

Project-1

01/02/2022

Problem-1:

- To figure out what kind of feed can help grow healthier chickens.

Methodology:

- COLLECTION OF DATA: All the data is collected from the data set with their weights and feeds from <https://github.com/chandadunani/ids7>
- OPERATIONS: Analyzing the data set with Mean, Min, Max, and Sum of the weights by feed graph
- OBSERVATIONS: Inserting pivot tables to calculate Mean, Min, Max, and Sum by using excel. And looking into the graph in detail to find the beneficial way of poultry farming.

Results:

Row Labels	Min of weight	Max of weight2	Average of weight3
casein	216	404	323.5833333
horsebean	108	227	160.2
linseed	141	309	218.75
meatmeal	153	380	276.9090909
soybean	158	329	246.4285714
sunflower	226	423	328.9166667
Grand Total	108	423	261.3098592

Fig 1 : Sum, Min, Max, and Mean of weights

Row Labels	Sum of weight
casein	3883
horsebean	1602
linseed	2625
meatmeal	3046
soybean	3450
sunflower	3947
Grand Total	18553

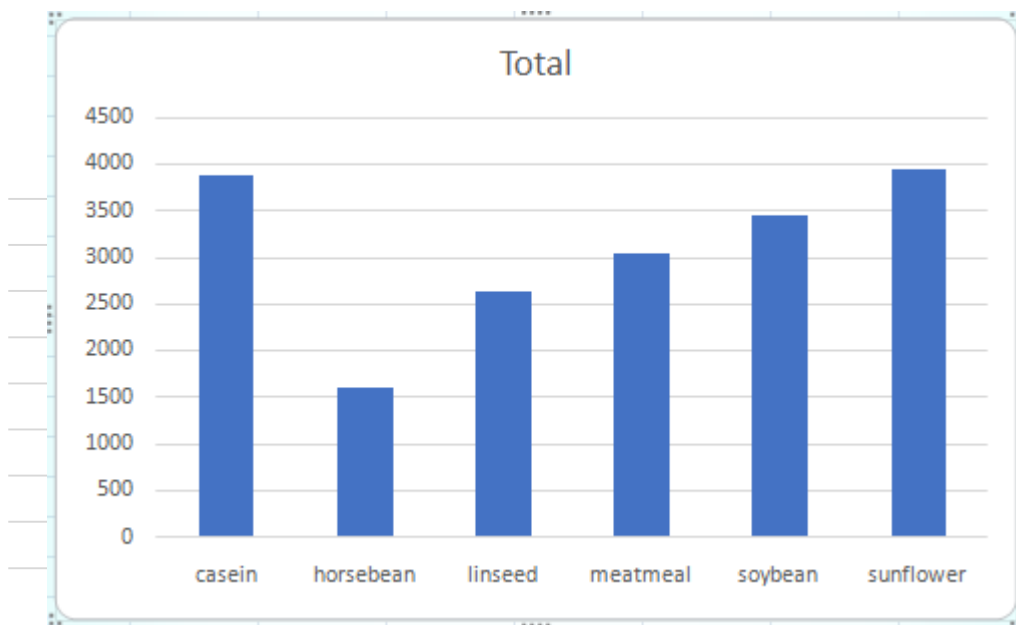


Fig 2 : Sum of weight by feed graph

CONCLUSION:

We are surrounded by a vast array of nutrients that go unused for human nutrition. Many food co-products such as dried distiller's grains, bakery waste, or oilseed meals, as well as by-products of animal agriculture like meat and bone, blood, or feather meal all have nutritional value, but they are the sort of things that humans won't eat. By raising chickens, From the outcomes of the following operations I can conclude that by feeding sunflowers, the weight of chickens will be high compared to the remaining chicken feeds. Thus, sunflower feed helps the poultry business in a beneficial way.

PROBLEM-2:

- To make an imaginary data set of insurance providers and their ratings given by three latest customers.

METHODOLOGY:

- COLLECTION OF DATA: All the data is collected from the data set with the insurance provider and their ratings from

<https://github.com/chandadunani/ids7>

- OPERATIONS: Analyzing the data set with Mean, Min, Max, and Sum of the ratings of the insurance providers graph.
- OBSERVATIONS: Inserting pivot tables to calculate Mean, Min, Max, and Sum by using excel. And looking into the graph in detail to find the best option for auto insurance.

#	Insurance Provider	Rating (out of 10)
1	GEICO	4.7
2	GEICO	8.3
3	GEICO	9.2
4	Progressive	7.4
5	Progressive	6.7
6	Progressive	8.9
7	USAA	3.8
8	USAA	6.3
9	USAA	8.1

Results:

Row Labels	Min of Rating(out of 10)	Max of Rating(out of 10)	Sum of Rating (out of 10)	Average of Rating(out of 10)
GEICO	4.7	9.2	22.2	7.4
Progressive	6.7	8.9	23	8.9
USAA	3.8	8.1	18.2	6.066666667
Grand total	3.8	9.2	63.4	7.044444444

Fig 1: Sum, Min, Max and Mean of weights

Row Label	Sum of Rating(out of 10)
GEICO	22.2
Progressive	23
USAA	18.2
Grand Total	63.4

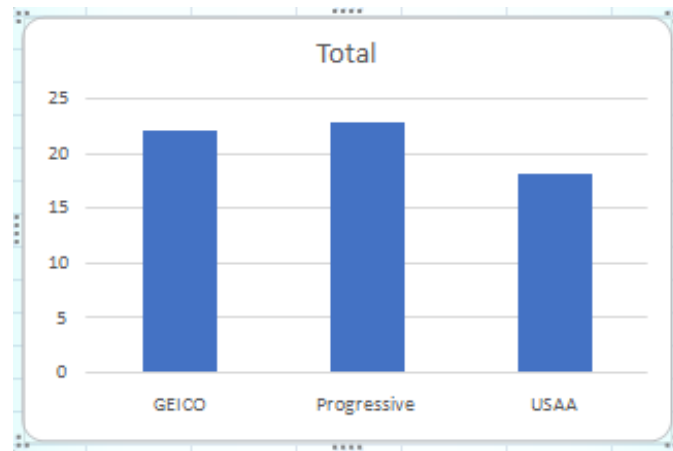


Fig 2: Sum of rating of insurance provider graph

CONCLUSION:

Insurance industry in India has seen a major growth in the last decade along with an introduction of a huge number of advanced products. This has led to a tough competition with a positive and healthy outcome. Insurance sector in India plays a dynamic role in the wellbeing of its economy. It substantially increases the opportunities for savings amongst the individuals, safeguards their future and helps the insurance sector form a massive pool of funds. With the help of these funds, the insurance sector highly contributes to the capital markets, thereby increasing large infrastructure developments in India. From the outcomes of the following operations I can conclude that as per customers ratings Progressive insurance providers have a high rating compared to others. Thus I go for the Progressive insurance provider for my auto insurance.