Sankeerth Sai Shabad

Introduction to Data Science

Project-1

30/01/2022

PURPOSE OF THE PROBLEM-1:

- To find out which chicken feed is more suitable for poultry farming in a beneficial way.

METHODOLOGY:

- COLLECTION OF DATA: All the data is collected from the data set with their weights and feeds from https://github.com/SankeerthShabad/IDS/blob/5527df0dde9f568f2ad8bad10d0c264e311ec16b/chickwts.csv.
- OPERATIONS: Analyzing the data set with Mean, Min, Max, and Sum of the weights by feed graph
- OBSERVATIONS: Inserting pivot tables to calculate Min, Max, Mean, and Sum by using excel of feed names and weights. Horsebean have minimum weight and sunflower have maximum weight. Sunflower has the highest average compared to other feed averages. By observing the sum of weight feed and graph, sunflower has the highest sum of weight.

RESULTS:

Row Labels	Min of weight	Max of weight	Average of weight
casein	216	404	323.58
horsebean	108	227	160.20
linseed	141	309	218.75
Meatmeal	153	380	276.91
soybean	158	329	246.43
sunflower	226	423	328.92
Grand Total	**108**	**423**	**261.31**

Table: summary of chicken weights according to the food types

Row Labels	Sum of weight
casein	3883
horsebean	1602
linseed	2625
Meatmeal	3046
soybean	3450
sunflower	3947

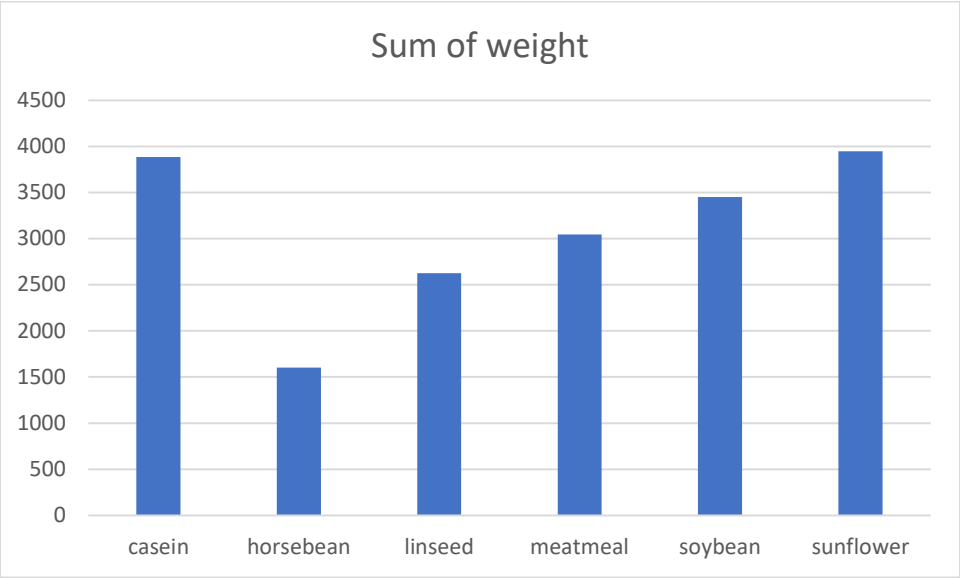

Fig: Sum of weight by feed graph

CONCLUSION: 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

PURPOSE OF THE PROBLEM-2:

- To collect 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/SankeerthShabad/IDS/blob/5527df0dde9f568f2ad8bad10d0c264e311ec16b/Insurance.csv.

- 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 Min, Max, Mean, and Sum by using excel of Insurance provider names and ratings. USAA has a minimum rating and GEICO have a maximum rating. Progressive has the highest average compared to other rating averages. By observing the sum of insurance provider ratings and graph, Progressive has the highest sum of ratings.

RESULTS:

Row Labels	Min of Rating(out of 10)	Max of Rating(out of 10)	Average of Rating(out of 10)
GEICO	4.7	9.2	7.40
Progressive	6.7	8.9	7.67
USAA	3.8	8.1	6.07
Grand Total	**3.8**	**9.2**	**7.04**

Table: Summary of insurance provider rating

Row Labels	Sum of Rating
GEICO	22.2
Progressive	23
USAA	18.2

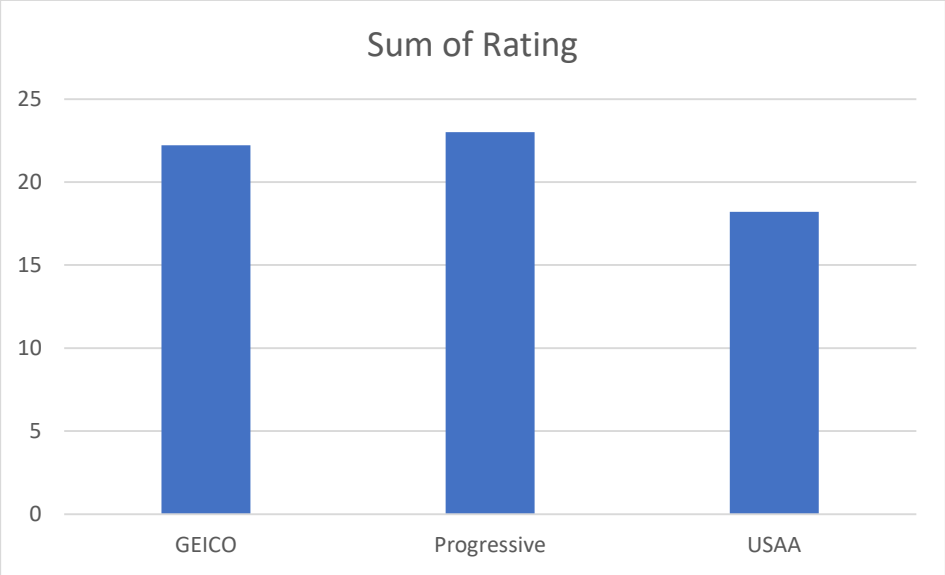

Fig: Sum of rating for insurance provider graph

CONCLUSION: 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.