Sharon Kasturiarachi

MIS 64060 Fundamentals of Machine Learning

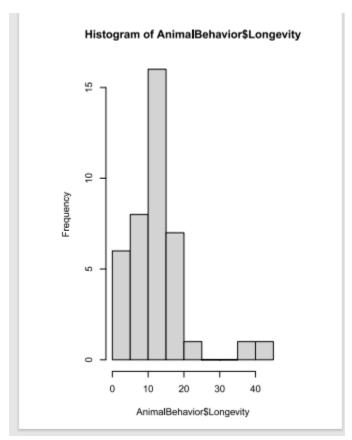
Dr. Rouzbeh Razavi

Assignment 1- Answers

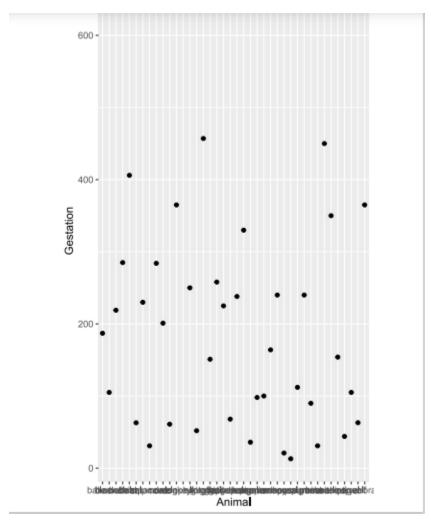
https://www.bartleby.com/

The datafile Gestation06 lists the average gestation period (in days) and longevity (in years) for a sample of animals

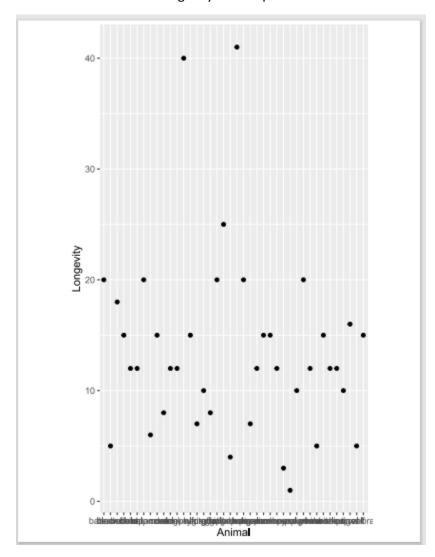
```
library (readxl)
Gestation06 <- read excel("D:/Fundamentals of Machine Learning Spring 2022/
Module 1 Github/Gestation06.xls")
View(Gestation06)
library (dplyr)
library(tibble)
library (tidyverse)
library (ISLR)
AnimalBehavior <- Gestation06
colnames (AnimalBehavior)
AnimalBehavior$Gestation <- as.numeric(AnimalBehavior$Gestation)
AnimalBehavior$Animal <- as.character(AnimalBehavior$Animal)
AnimalBehavior$Gestation <- as.numeric(AnimalBehavior$Gestation)
AnimalBehavior <- tbl df (AnimalBehavior)
AnimalBehavior$Animal <- as.character(AnimalBehavior$Animal)
AnimalBehavior$Gestation <- as.numeric(AnimalBehavior$Gestation)
View(Gestation06)
View(Gestation06)
AnimalBehavior$Longevity <- as.numeric(AnimalBehavior$Longevity)
AnimalBehavior <- Gestation06
AnimalBehavior <- tbl df (AnimalBehavior)
AnimalBehavior$Animal <- as.character(AnimalBehavior$Animal)
AnimalBehavior$Gestation <- as.numeric(AnimalBehavior$Gestation)
ggplot(AnimalBehavior, aes(Animal, Gestation)) + geom point()
ggplot(AnimalBehavior, aes(Animal, Longevity)) + geom point()
library(caret)
Summary (AnimalBehavior)
AnimalBehaviorNewVersion <- Gestation06
AnimalBehaviorNewVersion <- AnimalBehavior
AnimalBehaviorNewVersion$GestationInyears <- AnimalBehavior$Gestationd/365
View(AnimalBehaviorNewVersion)
AnimalBehaviorNewVersion$GestationInyears <- AnimalBehavior$Gestation/365
AnimalBehaviorVersiontransform <-AnimalBehavior
AnimalBehaviorVersiontransform <- transform(AnimalBehaviorVersiontransform,
GestationInyears = Gestation/365)
```



Gestation Scatter plot

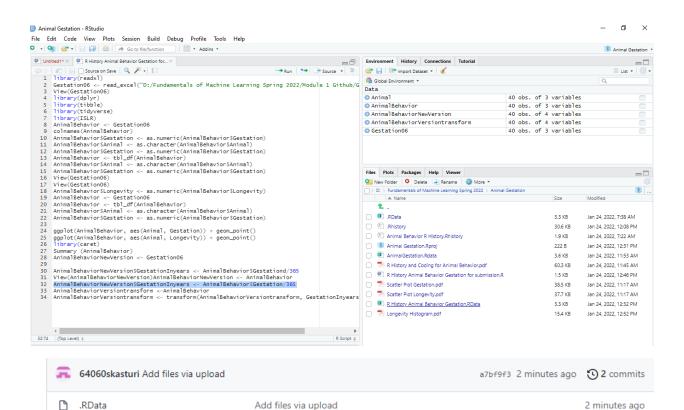


Longevity Scatter plot



Animal Behavior New Version \$ Gestation In years <- Animal Behavior \$ Gestation d/365

 $\label{lem:animalBehaviorVersiontransform <- transform (AnimalBehaviorVersiontransform, GestationInyears = Gestation/365)$



2 minutes ago

2 minutes ago

10 minutes ago

2 minutes ago

2 minutes ago

Add files via upload

Add files via upload

Create Assignment_1

Animal Gestation.Rproj

Assignment_1

Assignment 1 with screen shots.docx

R History Animal Behavior Gestation ... Add files via upload

R History and Coding for Animal Beh... Add files via upload