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#Analysis of Sales Report of a clothes Manufacturing Outlet . We will find current
#Inorder to regularize the rating procedure and finds its efficiency, the wants to
#find if the rating of the dress affects the sales.
           #Created by: SHAHROO AKHTAR
#installing packages and libraries importing data. A new csv file was created only
#with the total sales and ratings data.
library(dplyr)
library(readx1)
install.packages("reprex")
library(reprex)
#Importing the data file from the saved location
TotalSales <- read.csv("/Users/apple/Desktop/TotalSales.csv", header = T)
View(TotalSales)
str(TotalSales)
#Converting the variable type of the Total column to numeric
TotalSales$Total <- as.numeric(TotalSales$Total)
str(TotalSales)
#The rating of the dress is the independant variable and sales is dependant
#variable so we will try to see check how sales is affected by the ratings.
#We will be using the Linear Regression alogorithim to check the relationship
#Preparing the data
# Splitting the dataset into the Training set and Test set
# install.packages('caTools')
library(caTools)
set.seed(123)
split = sample.split(TotalSales$Total, SplitRatio = 0.8)
training_set = subset(TotalSales, split == TRUE)
test set = subset(TotalSales, split == FALSE)
# Feature Scaling
training set = scale(training set)
test_set = scale(test_set)
# Fitting Simple Linear Regression to the Training set
regressor = lm(formula = Total \sim Rating,
     data = training_set)
# Predicting the Test set results
y_pred = predict(regressor, newdata = test_set)
# Visualising the Training set results
library(ggplot2)
ggplot() +
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geom_point(aes(x = training_set$Rating, y = training_set$Total),
       colour = 'red') +
 geom_line(aes(x = training_set$Rating, y = predict(regressor, newdata = training_set)),
      colour = 'blue') +
ggtitle('Rating vs Total Sales (Training set)') + xlab('Rating') +
 ylab('Total Sales')
# Visualising the Test set results
library(ggplot2)
ggplot() +
 geom_point(aes(x = test_set$Rating, y = test_set$Total),
       colour = 'red') +
geom_line(aes(x = training_set$Rating, y = predict(regressor, newdata = training_set)),
colour = 'blue') +
 ggtitle('Rating vs Total Sales (Test set)') +
xlab('Rating') + ylab('Total Sales')
#RESULT: It shows that Rating of a dress has a high impact on the sale
#of that product.
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