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# Decision Tree Regression
# Importing the dataset
dataset = read.csv('Salary.csv')
dataset = dataset[2:3]
# Splitting the dataset into the Training set and Test set
library(caTools)
set.seed(123)
split = sample.split(dataset$Salary, SplitRatio = 2/3)
training_set = subset(dataset, split == TRUE)
test_set = subset(dataset, split == FALSE)
# Feature Scaling
training_set = scale(training_set)
test_set = scale(test_set)
# Fitting Decision Tree Regression to the dataset
library(rpart)
regressor = rpart(formula = Salary ~ ., data = dataset, control = rpart.control(minsplit = 1))
# Predicting a new result with Decision Tree Regression
y_pred = predict(regressor, data.frame(Level = 6.5))
# Visualising the Decision Tree Regression results (higher resolution)
library(ggplot2)
x_grid = seq(min(dataset$Level), max(dataset$Level), 0.01)
ggplot() +   geom_point(aes(x = dataset$Level, y = dataset$Salary),  colour = 'red')
+   geom_line(aes(x = x_grid, y = predict(regressor, newdata = data.frame(Level = x_grid))), colour = 'blue')
+  ggtitle('Truth or Bluff (Decision Tree Regression)') +   xlab('Level') +   ylab('Salary')
# Plotting the tree
plot(regressor)
text(regressor)
```