

From Descriptive To Predictive Analytics

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From
Descriptive
To
Predictive
Analytics



Business Scenario

Goal

Constraints

Other Factors

Identify top performing advisors

Budget & advisory team positions

Baseline performance

Descriptive Analytics with Power Bl

Exploratory

Total Revenue

Visualization

Cost (Income)

Analysis

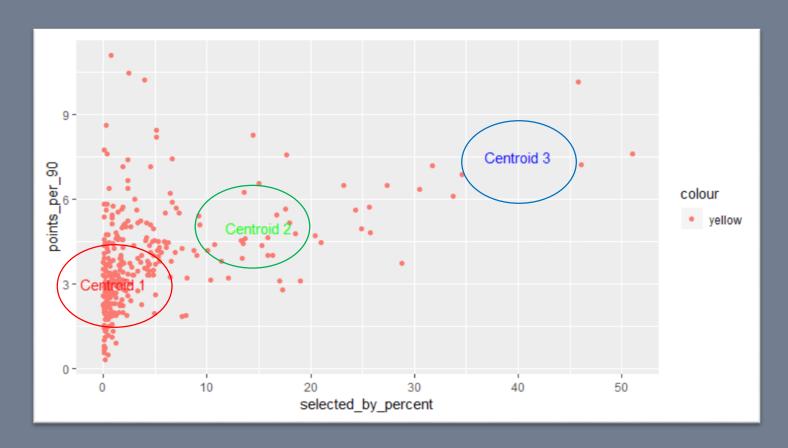
Advisor Position

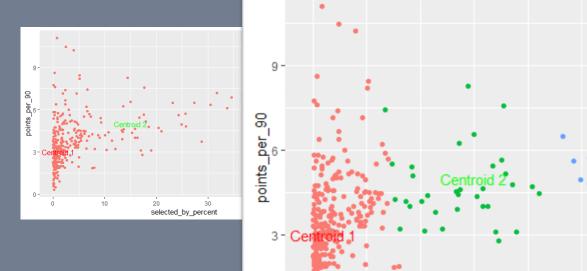
Key Concepts

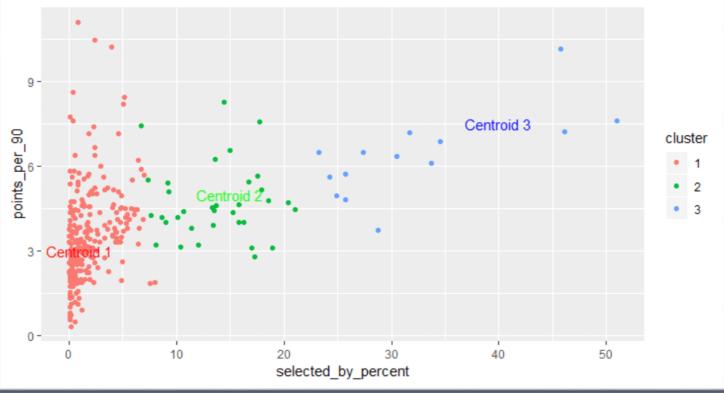
- 1. Performance: How well does our model predict the dependent variable?
- 2. Generalization: How well will our model perform on new data points?

- Unsupervised
- Requires Interpretation & Configuration
- Iterative Process
 - Plot Centroids
 - Assign Data Points to Clusters
 - Re-plot Centroids

1

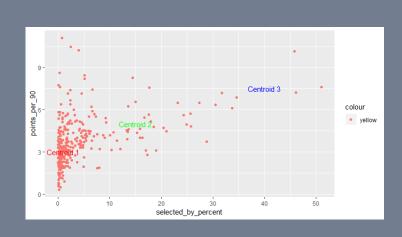


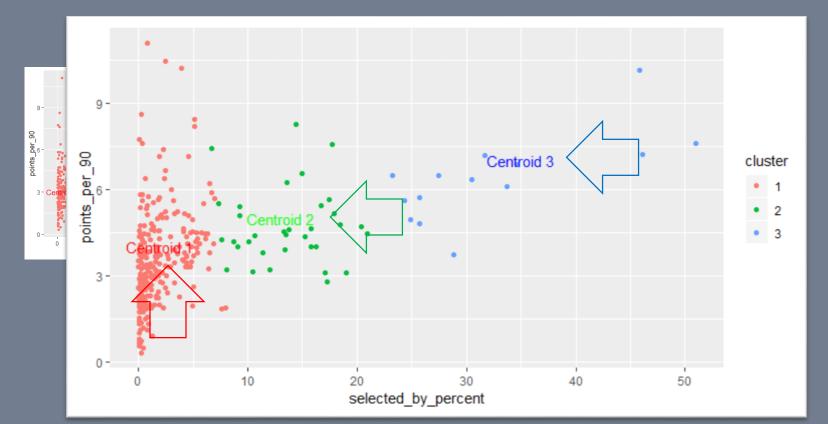




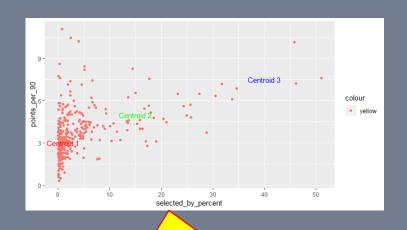
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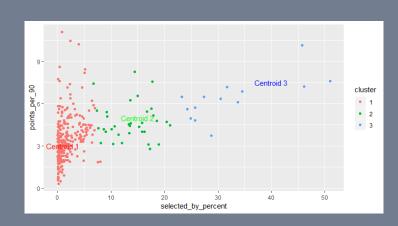
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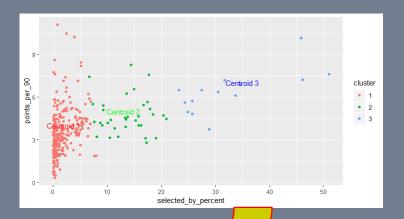




3



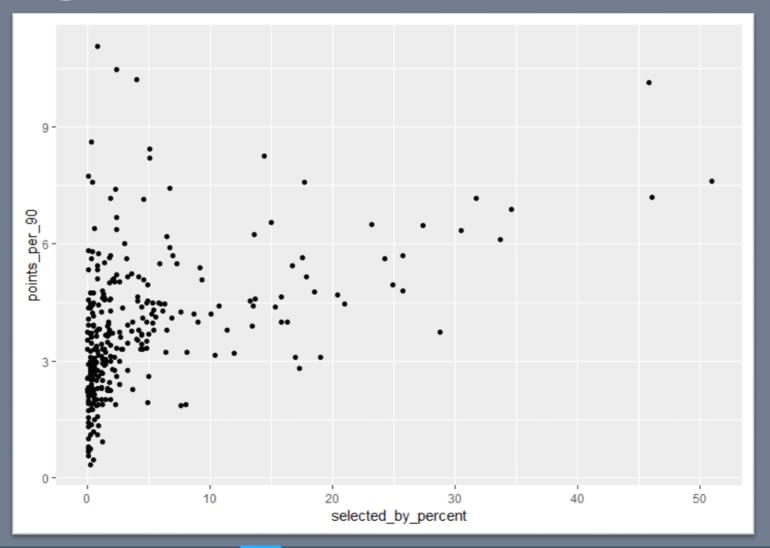




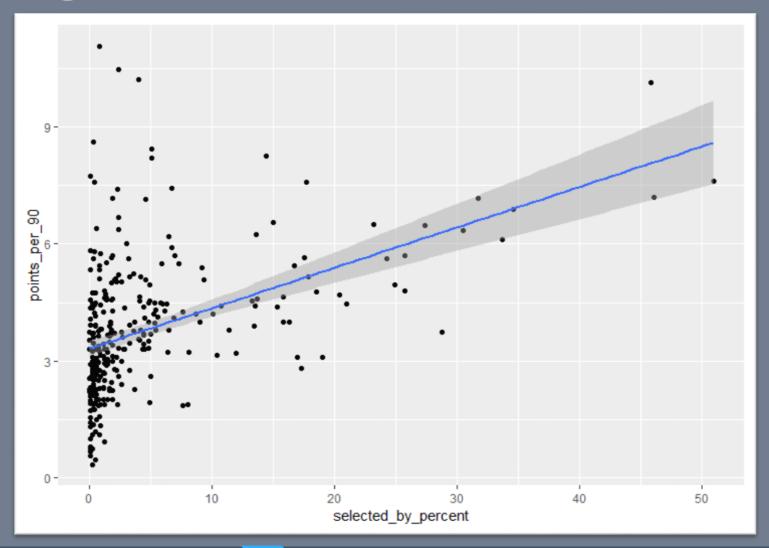
Linear Regression

- Supervised
- Requires Labeled Input
- Fit a linear equation to model relationship between target and predictor variables

Linear Regression



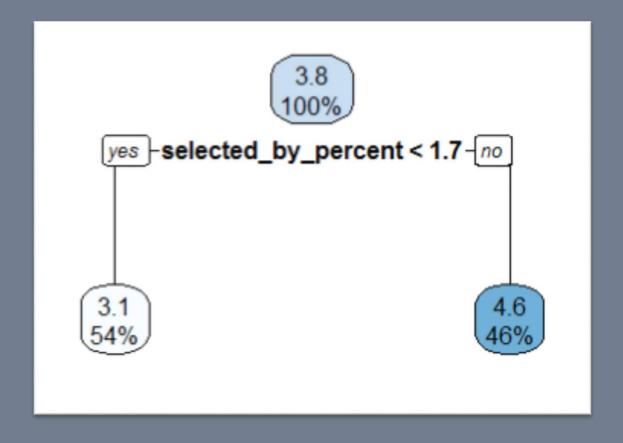
Linear Regression



Classification Tree

- Supervised
- Requires Configuration
- Split data into groups with series of Yes/No questions

Classification Tree



What is R?



Basics with R

Assignment

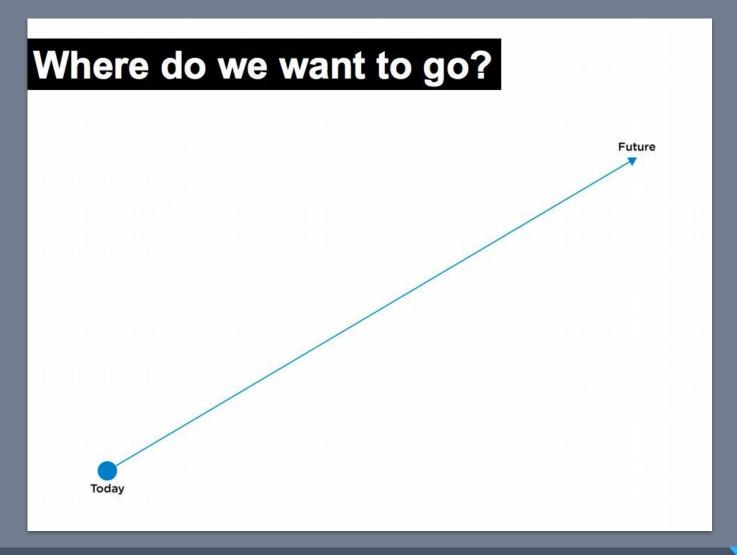
```
filepath <- "C:/Users/Source Data.xlsx"
```

Functions

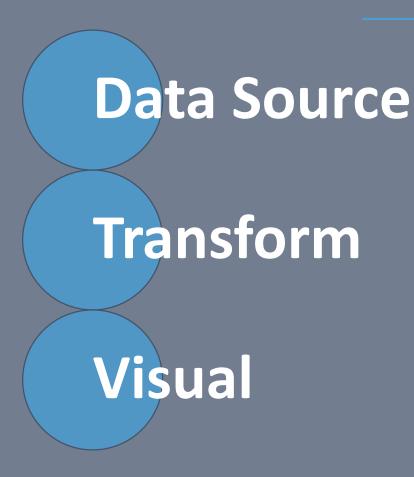
```
source_data <- read_excel(filepath, sheet = "data")</pre>
```

Piping

Integration



Descriptive to Predictive



R Script Connector

Power Query R Script

R Script Visual

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