Model Thinking

Categorical Models

Anazon





"Lump to Live"

Broccoli

Grasshopper

Banana

Candy Bar

Orange

Asparagus

Pear

Strawberry

Calones

Pear 100

Cake 250

Apple 90

Banana 110

Pie 350

Mean = 180

```
Pear (100-180)^2
```

Cake
$$(250-180)^2$$

Apple
$$(90-180)^2$$

Banana
$$(110-180)^2$$

Pie
$$(350-180)^2$$

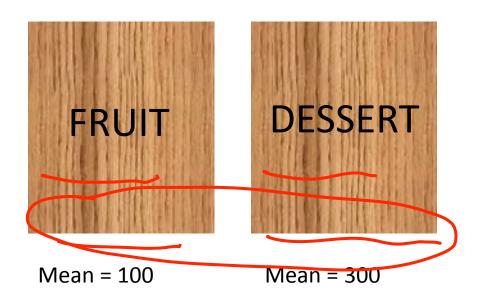
$$(100-180)=6400$$

 $(750-180)=4900$

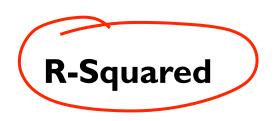
```
Pear (100-180)^2 = 6400 Cake (250-180)^2 = 4900 Apple (90-180)^2 = 8100 Banana (110-180)^2 = 4900 Pie (350-180)^2 = 28900
```

Total Variation = 53,200





Variation = 200 Variation = 5000



% Variation Explained

- 5200/53,200

90.2%

R-Squared

R-squared near I model explains a lot

R-squared near 0 model explains little

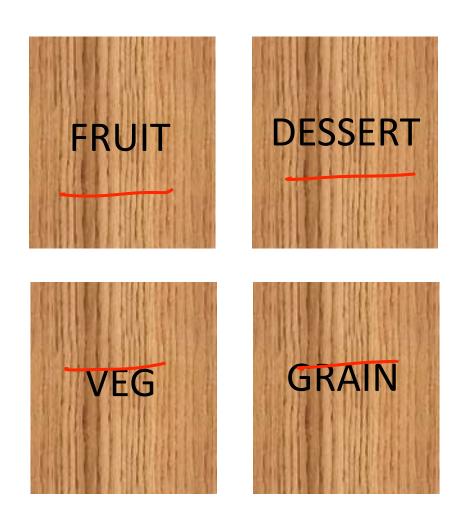






Photo Simon Howden

Correlation is not **Causation** 600P Equestion

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