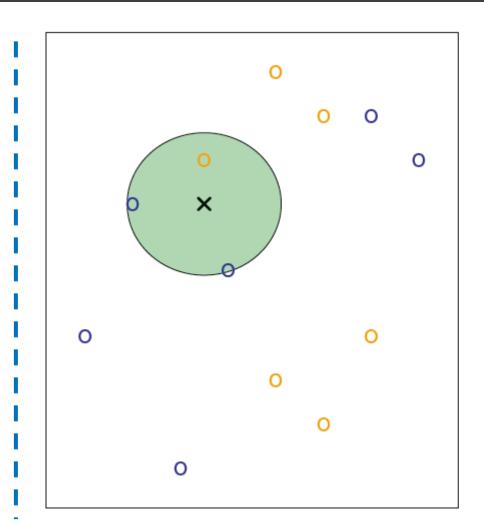
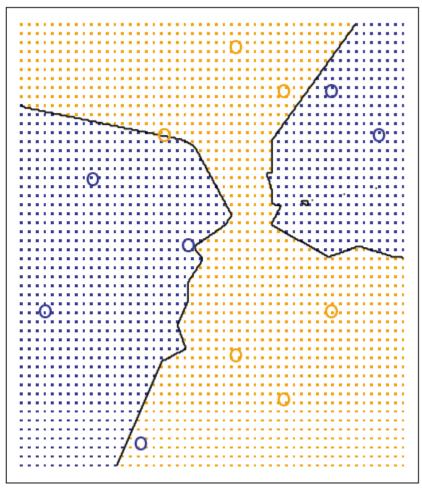


# Start-Tech Academy

### K-Nearest Neighbors

**KNN** 

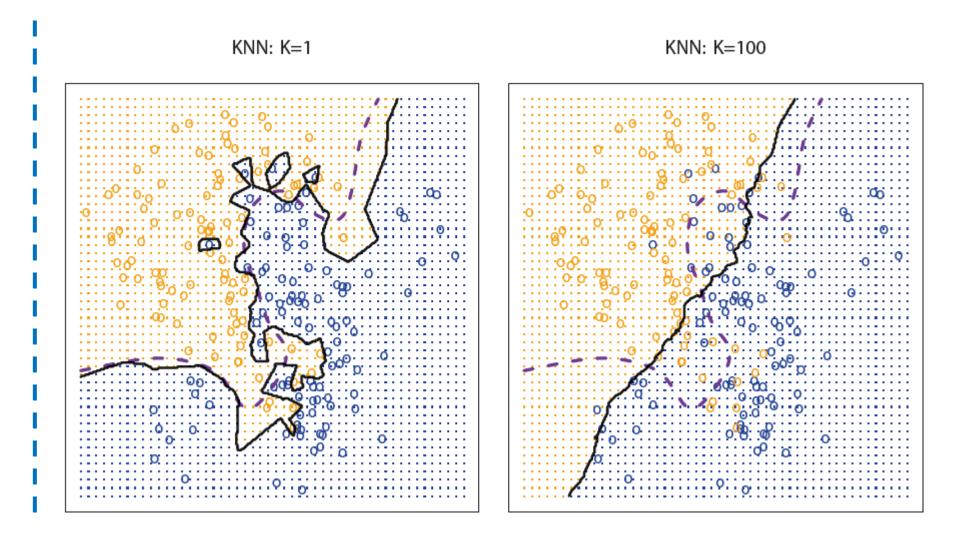






## K-Nearest Neighbors

**KNN** 





#### K-Nearest Neighbors

KNN

#### **Notes**

- In KNN distance between observations impacts the classifier
- Therefore, scale matters
- To handle the problem of scaling we standardize the data

$$\tilde{x}_{ij} = \frac{x_{ij}}{\sqrt{\frac{1}{n} \sum_{i=1}^{n} (x_{ij} - \overline{x}_j)^2}}$$

