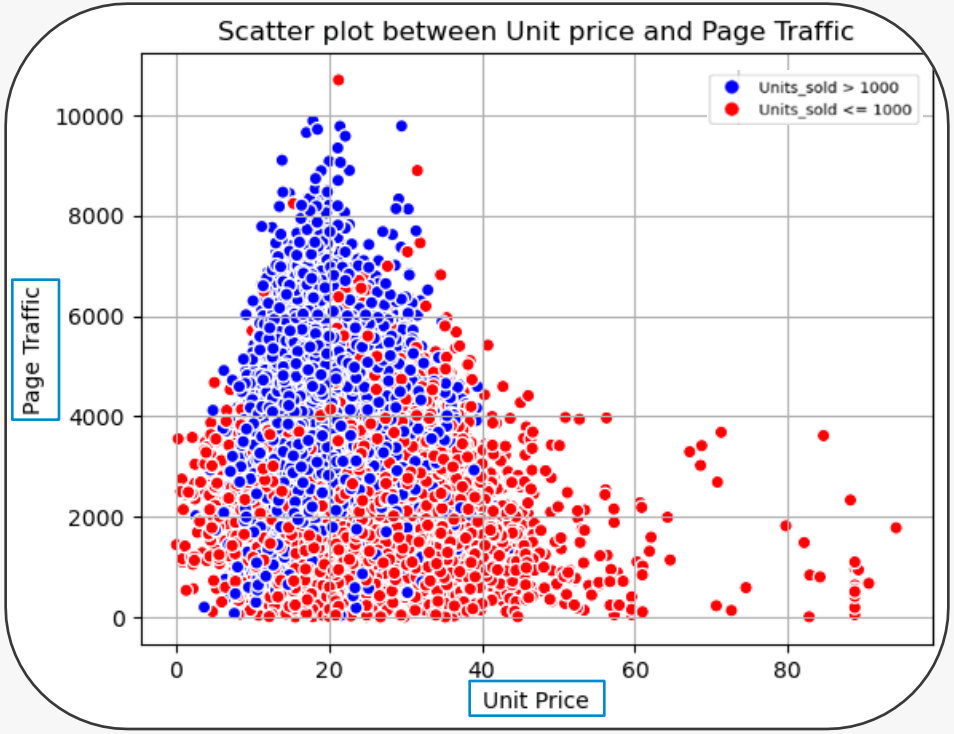
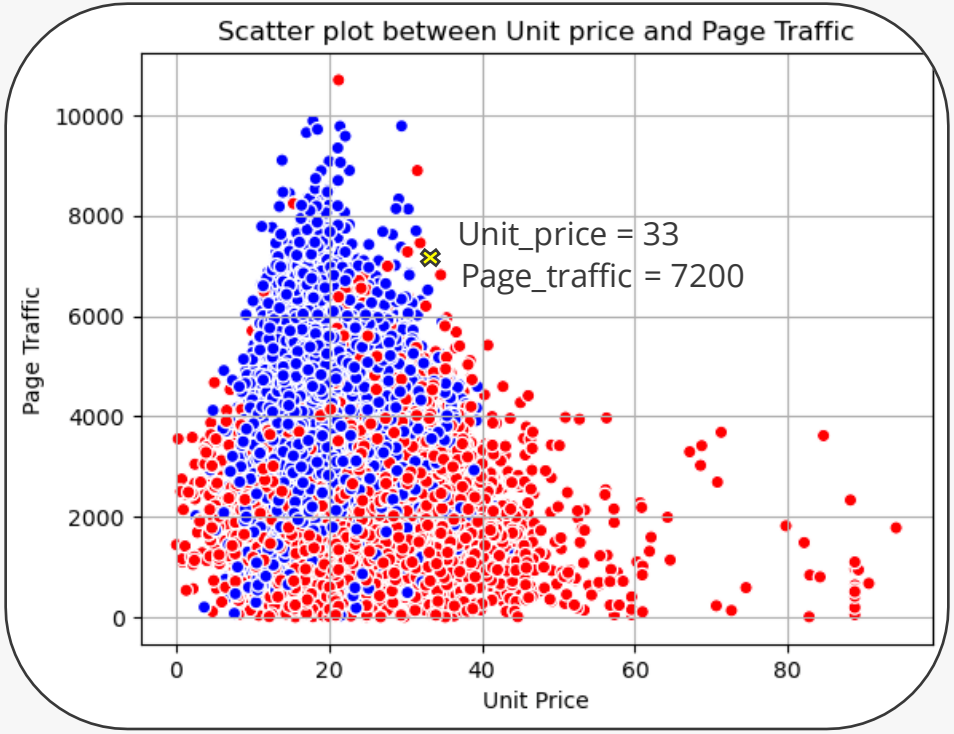
KNN Model

Building a KNN Model



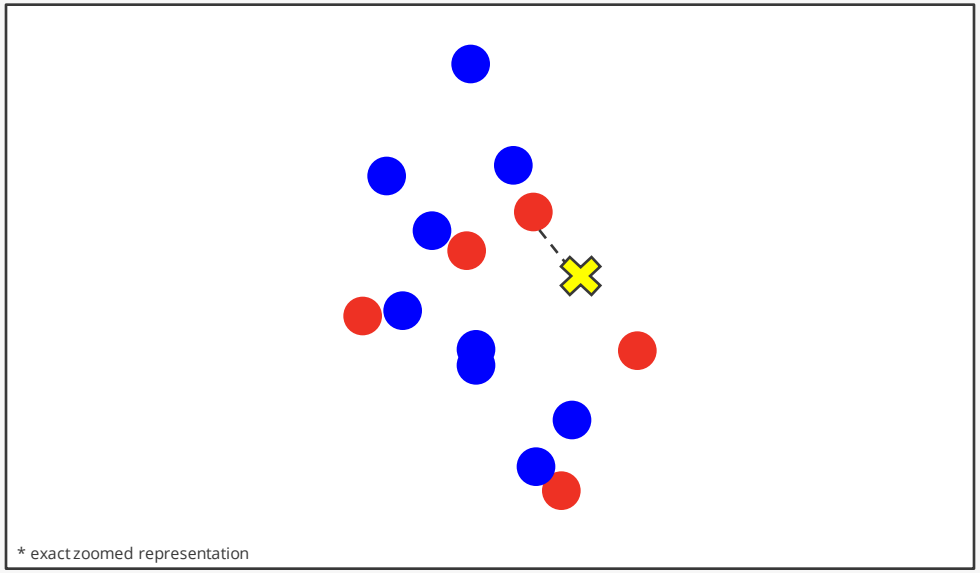
Building a KNN Model

Building a KNN Model



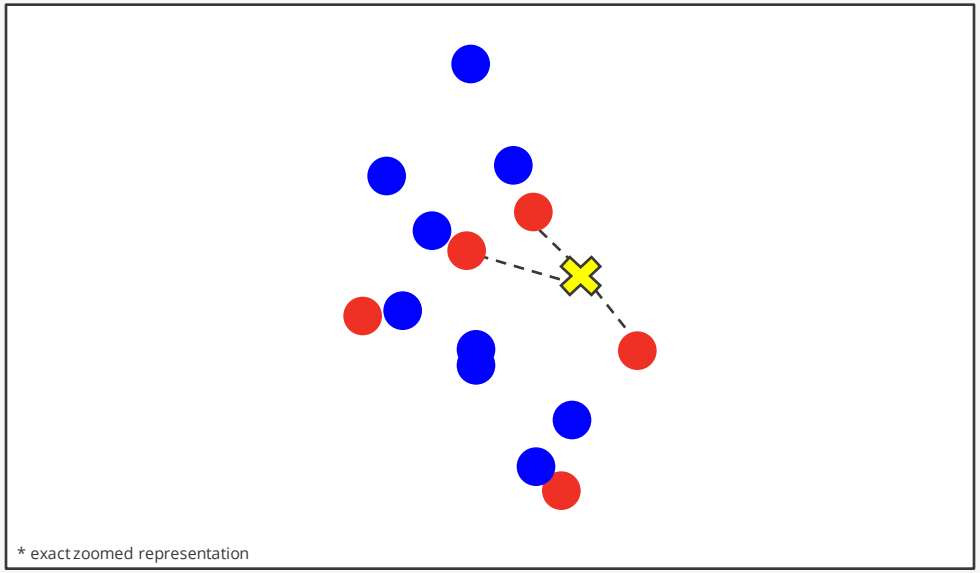
Will this product sell more than 1000 units?

Building a KNN Model



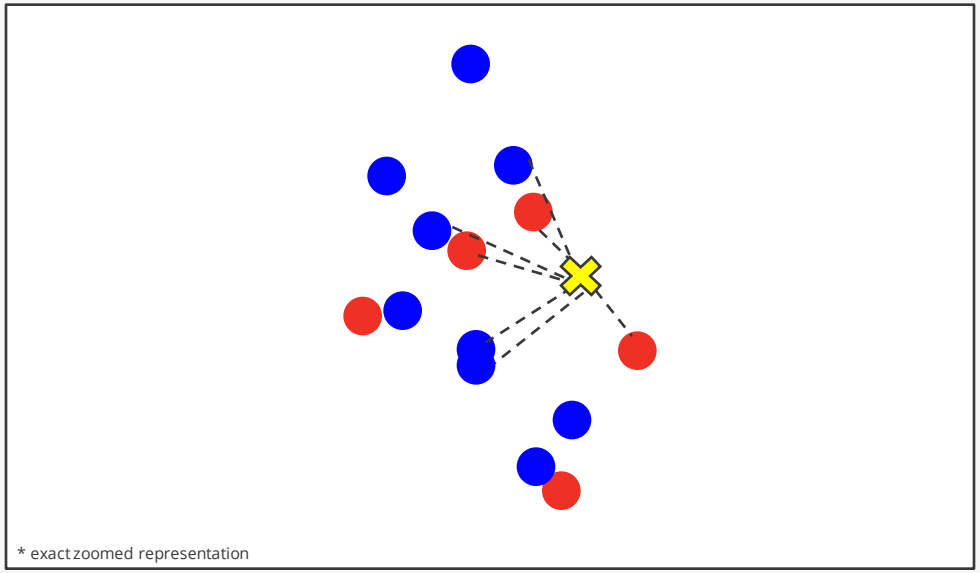
Nearest neighbors = 1

Building a KNN Model



Nearest neighbors = 3

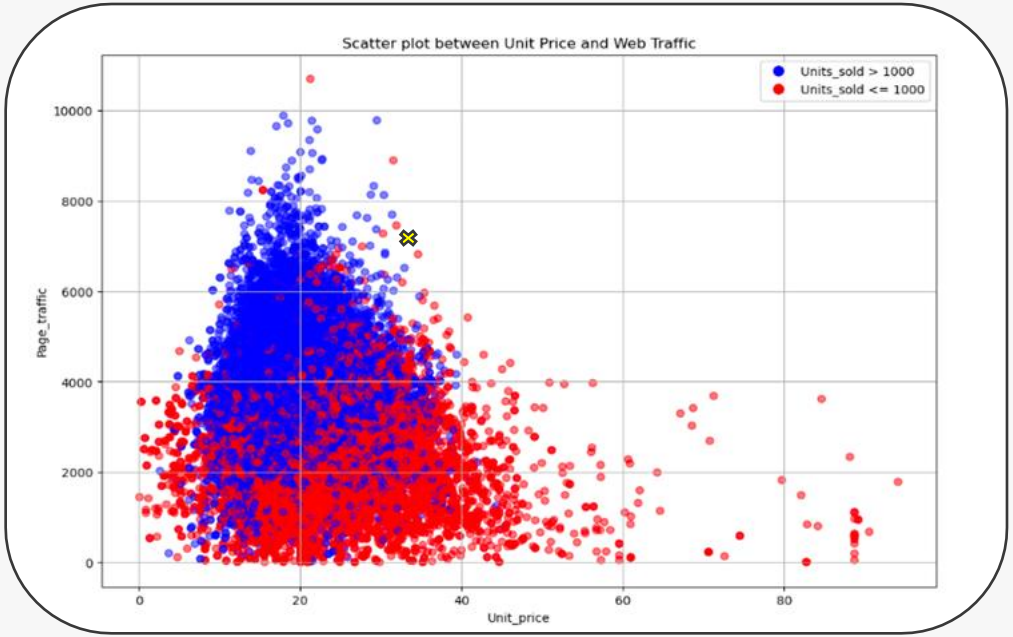
Building a KNN Model



Nearest neighbors = 7

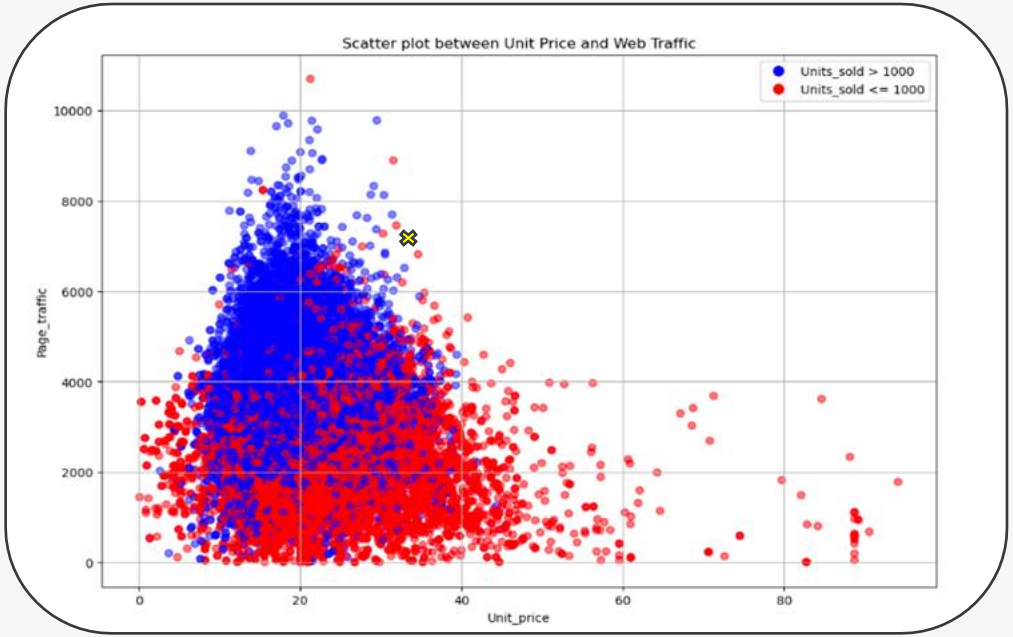
Calculate the distance from all the points to the new data point

Building a KNN Model



Distances	
2	Data_point_98
6	Data_point_8087
14	Data_point_12089
5	Data_point_5431
4	Data_point_1631
.....	

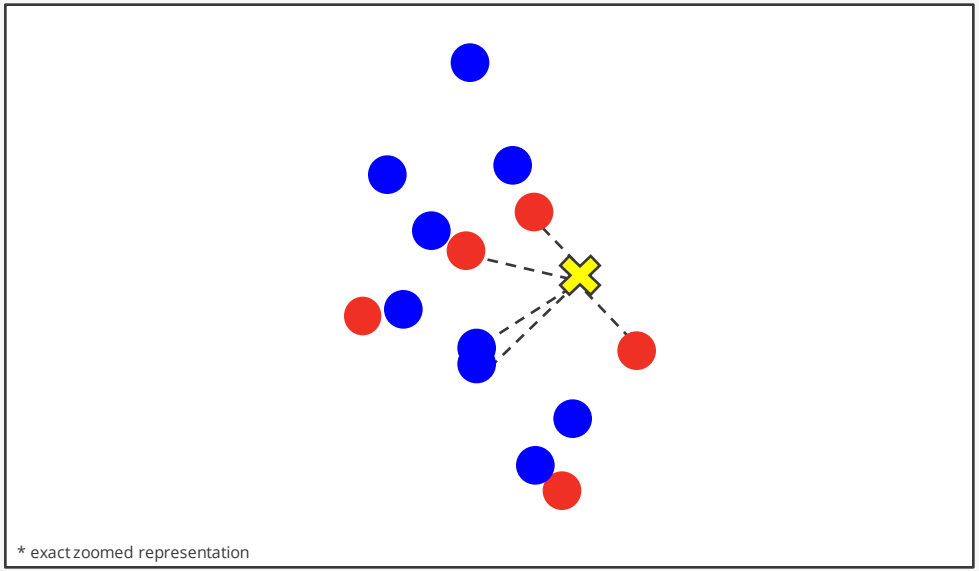
Building a KNN Model



Distances	
1	Data_point_1
1	Data_point_2
2	Data_point_3
2	Data_point_4
3	Data_point_5
.....	

Nearest neighbors (K) = 5

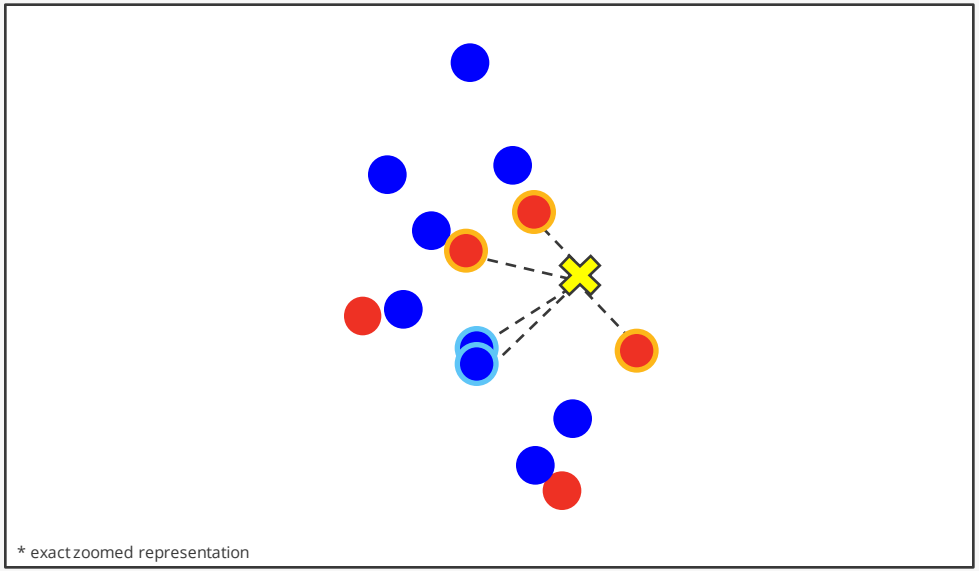
Building a KNN Model



Distances	
1	Data_point_1
1	Data_point_2
2	Data_point_3
2	Data_point_4
3	Data_point_5
.....	

Nearest neighbors (K) = 5

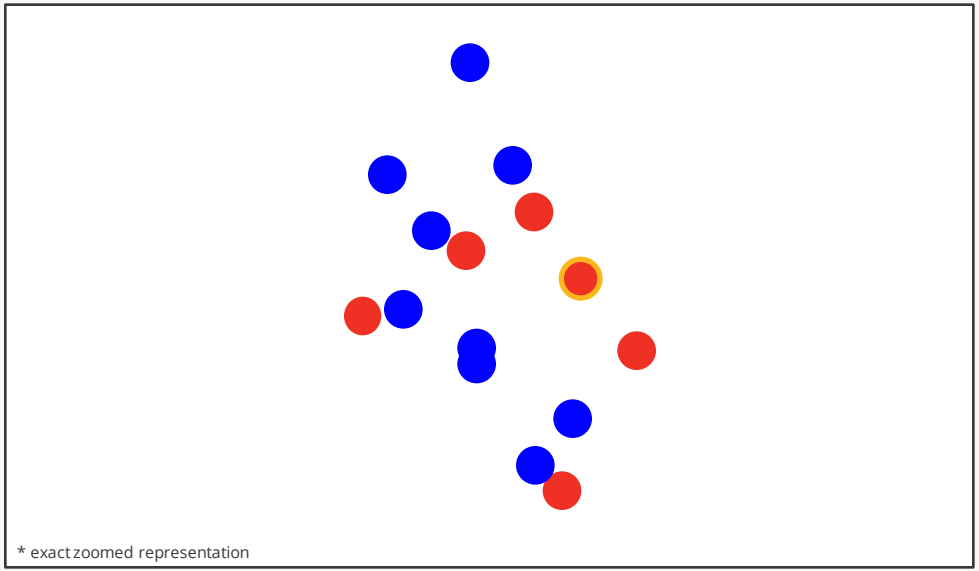
Building a KNN Model



Nearest neighbors (K) = 5

Take the "**mode**" of the labels

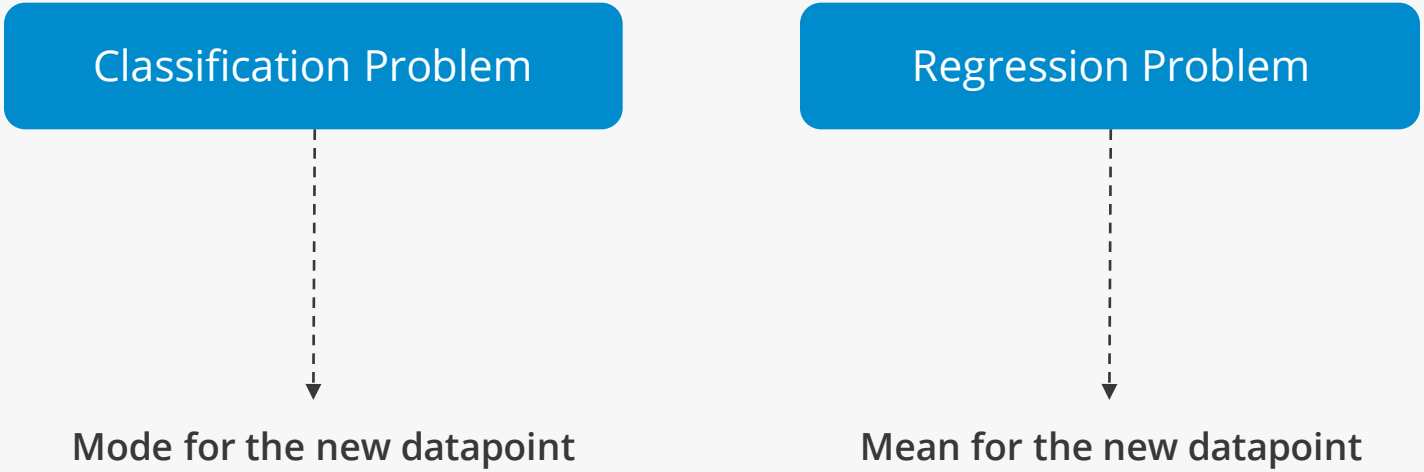
Building a KNN Model



Nearest neighbors (K) = 5

The new product will have Units_sold < 1000

Building a KNN Model



How did we choose K=5 here?