Building Knn model

Building Knn model

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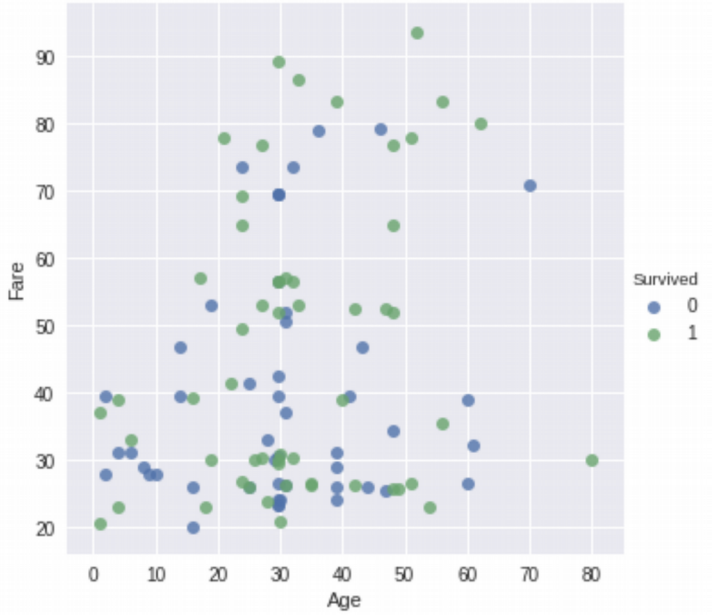
- Plot the training dataset



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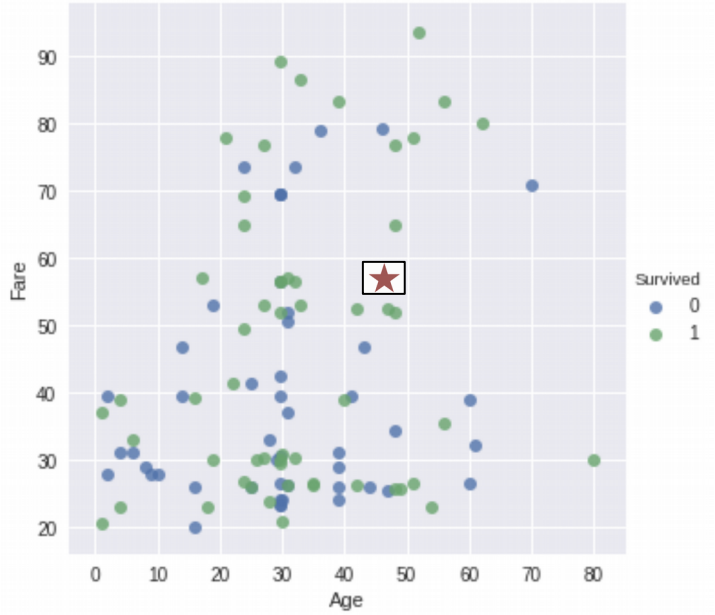
Building Knn model

- Plot the training dataset
- Locate the new “test” instance



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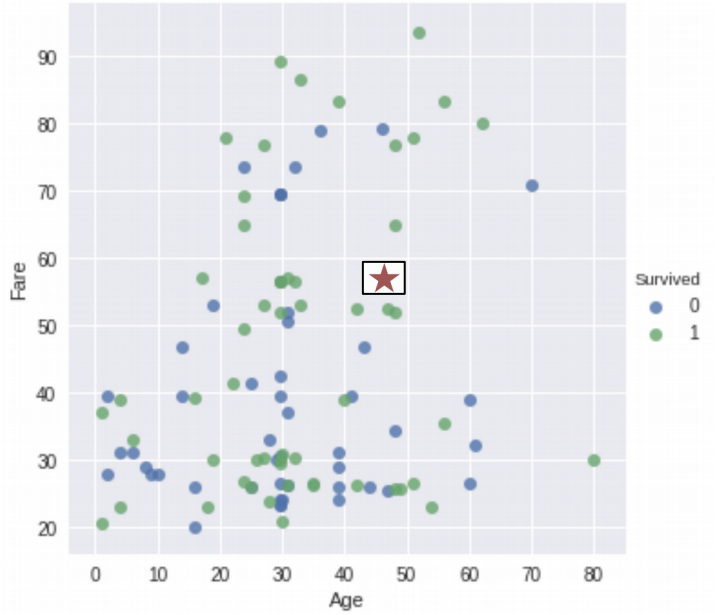
Building Knn model

- Plot the training dataset
- Locate the new “test” instance
- Calculate distance from all train data points



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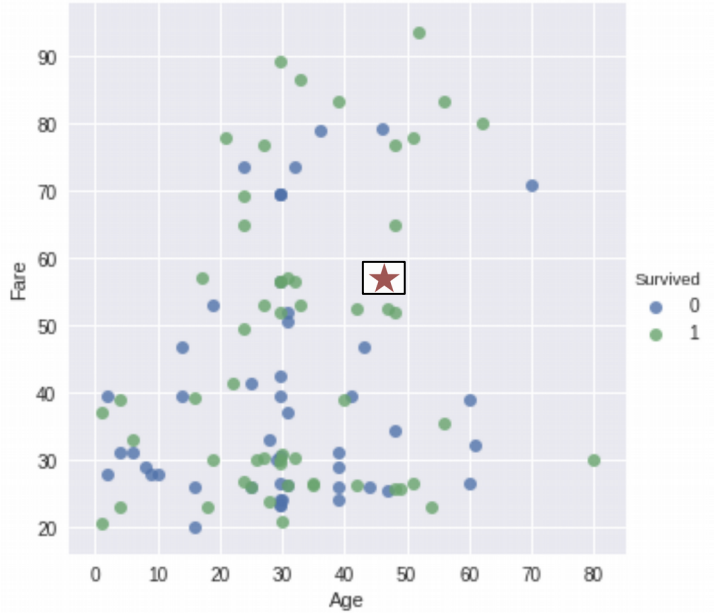

6	2	5	1	3	4	...

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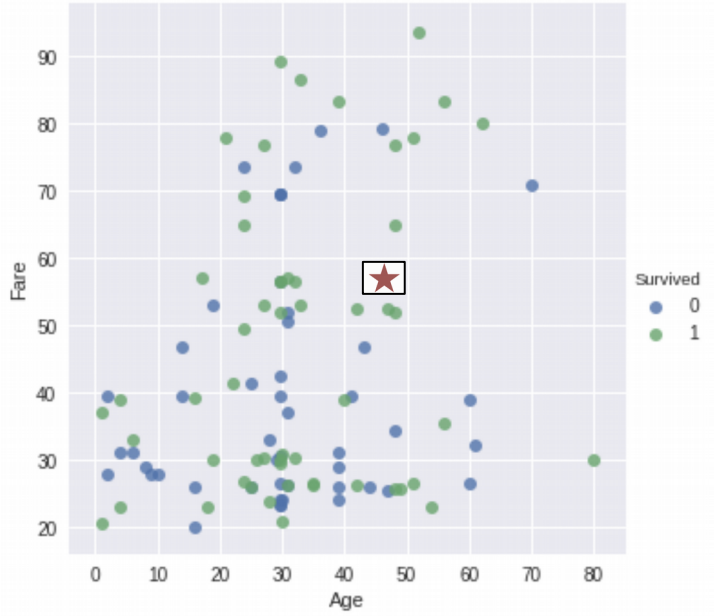
Building Knn model

- Plot the training dataset
- Locate the new “test” instance
- Calculate distance from all train data points
- Sort the distance list in ascending order



1	2	3	4	5	6	...

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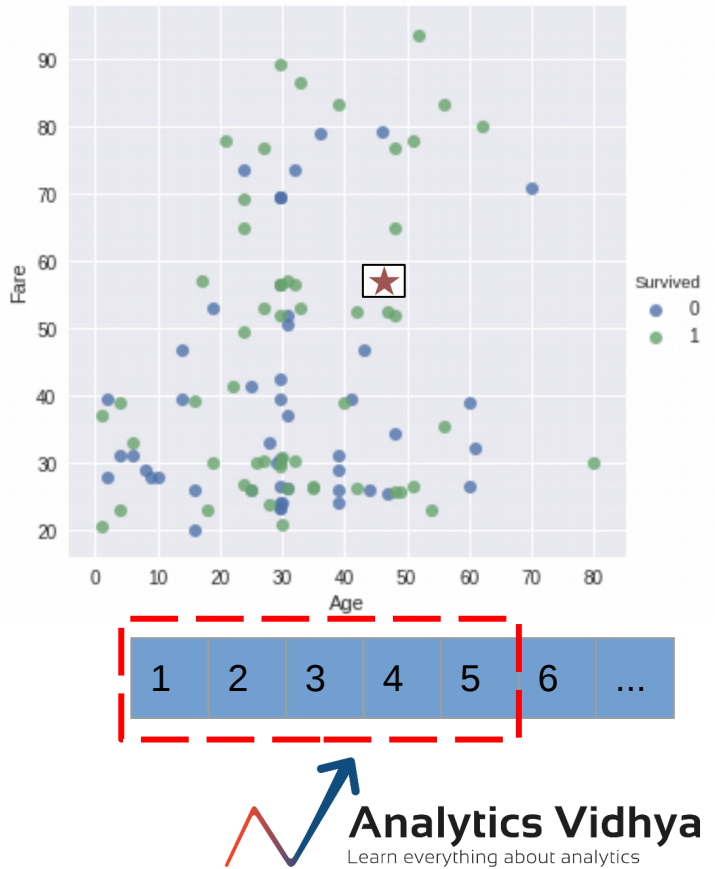
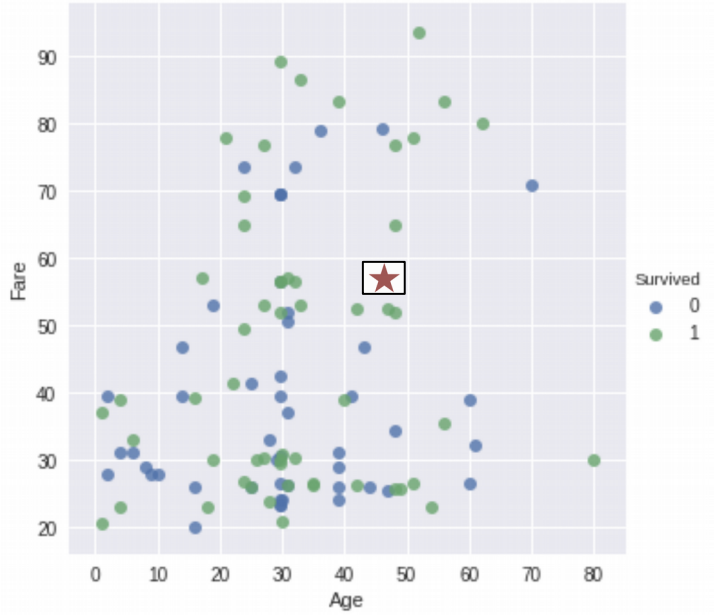
Building Knn model

- Plot the training dataset
- Locate the new “test” instance
- Calculate distance from all train data points
- Sort the distance list in ascending order
- Choose first k distances from the sorted list



Building Knn model

- Plot the training dataset
- Locate the new “test” instance
- Calculate distance from all train data points
- Sort the distance list in ascending order
- Choose first k distances from the sorted list
- Take mode of the classes associated with



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Building Knn model

Classification

1 1 0 0 0 1 0 ...

New Instance = Mode

Regression

1 99 22 53 97 ...

New Instance = Mean