# K Means:

1. The green line is year 1; the red line is year 2. 3 is the best k number here.

![Chart, line chart

Description automatically generated]()

Chart

Description automatically generated

Year one has three clusters (blue, green, and red.)

The green cluster is one “pure” cluster with more than 90% of red labels.

Chart, diagram, bubble chart

Description automatically generated This is year two, which also has three clusters (blue, green, and red.)

There is no “pure” cluster in year two. The closest one is the green cluster which has a total of 88.4% of red labels in there.

# SVM & Clustering

Text

Description automatically generated

Text

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Calendar

Description automatically generated

Q3 Task 1:

Chart, line chart

Description automatically generated

Interesting shapes based on different x-y coordinates.

Chart, scatter chart

Description automatically generated

Chart, scatter chart

Description automatically generated

Chart, scatter chart

Description automatically generated Chart, scatter chart

Description automatically generated

Task 3:

Table

Description automatically generatedChart, scatter chart

Description automatically generated

<- Percentage of each cluster.