SIT307_SIT720 - Machine Learning

3.13 Pass activity

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Welcome to week-3 quiz and problem solving activity.

Quiz: *Attempt the quiz as many times as you need to score more than 85% and then take a screen-shot of your score and add it in your report that you are going to submit as a part of pass task in OnTrack.*

SIT307

SIT 307

We can find the quiz link by clicking on this **SIT305-Week 3-Quiz** ↗

SIT720

We can find the quiz link by clicking on this **SIT720-Week 3-Quiz** ↗

Problem solving activity: Solve the following set of problems using Python and submit the code file with extension .ipynb in OnTrack as part of your pass activity.

SIT 307 and SIT 720

1. Load data from "**Live_20210128.csv** " file. Remove unwanted features if required.

2. Select the optimum k value using Silhouette Coefficient and plot the optimum k values.

3. Create clusters using Kmeans and Kmeans++ algorithms with optimal k value found in the previous problem. Report performances using appropriate evaluation metrics. Compare the results.

4. Now repeat clustering using Kmeans for 50 times and report the average performance. Again compare the results that you

have obtained in Q3 using Kmeans++ and explain the difference (if any).

SIT 720

5. Apply DBSCAN on this dataset ("**Live_20210128.csv** 🅵 " **)** and

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