OLA3 - Unsupervised Learning

The following OLA gives you an opportunity to work on applying unsupervised machine learning algorithms. It gives you an opportunity to take your exam project idea or another problem and work through all the stages of the machine learning process, from business case to deployment of a model.

DUE DATE: Week 14 (Fri 5 April) hand in on Moodle or by email to me if the upload folder won't work.

Task

Select and prepare a data set to explore a problem you are interested in understanding. This can be your exam project problem or in the same problem domain. Using the KMeans and or DBSCAN unsupervised algorithms prepare a solution. You may find it useful to combine a kmeans or other clustering approach with a supervised learning model for prediction just as we did with the Iris data set and PCA

You should demonstrate that you have clustered the data in a sensible way and explain your understanding of the results and what they mean.

Deliverables

- A Jupyter notebook containing all the code used with comments/Markdown to explain what you did.