Pipelining

* A machine learning pipeline can be created by putting together a sequence of steps involved in training a machine learning model.
* It can be used to automate a machine learning workflow.
* The pipeline can involve pre-processing, feature selection, classification/regression, and post-processing.
* More complex applications may need to fit in other necessary steps within this pipeline.
* Definition of pipeline class according to scikit-learn is Sequentially apply a list of transforms and a final estimator.
* Intermediate steps of pipeline must implement fit and transform methods and the final estimator only needs to implement fit.

*class* sklearn.pipeline.**Pipeline**(*steps*)

Pipeline of transforms with a final estimator.

Sequentially apply a list of transforms and a final estimator. Intermediate steps of the pipeline must be ‘transforms’, that is, they must implement fit and transform methods. The final estimator only needs to implement fit. The transformers in the pipeline can be cached using memory argument.