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Course Content

Week 1 - Lecture Video Materials

The following materials are highly recommended to be downloaded as these files are used in the hands-on lecture videos so that you can work simultaneously with the faculty while watching the video content.

The hands-on notebook is the same notebook that the faculty have used while teaching the concepts in the hands-on lecture videos. By downloading this notebook, you can work along with the faculty through the video content.

Hands-on Exercise - Feature Engineering and Cross-Validation:

[imputed_Pima_class_work.ipynb](#)

The above notebook has been used in the hands-on notebook week 1 that is shown in the video **Hands-on Exercise-Feature Engineering(optional)** by the faculty.

[K fold cross validation.ipynb](#)

The above notebook has been used in the hands-on notebook week 1 that is shown in video **1.3 Hands-on implementation of k-fold cross-validation** by the faculty.

[Oversampling_and_undersampling.ipynb](#)

The above notebook has been used in the hands-on notebook week 1 that is shown in video **1.5 Hands-on oversampling and undersampling** by the faculty.

[Ridge_Lasso_Regression.ipynb](#)

The above notebook has been used in the hands-on notebook week 1 that is shown in video **1.7 Hands-on Lasso-Ridge regression model** by the faculty.

Datasets used in the hands-on lecture videos:

[Pima-Indians-diabetes.csv](#)

The above dataset has been used in the hands-on notebook week 1 that is shown in the video **Hands-on Exercise-Feature Engineering(optional) and 1.3 Hands-on implementations of k-fold cross-validation** by the faculty.

[Loanclients.csv](#)

The above dataset has been used in the hands-on notebook week 1 that is shown in video **1.5 Hands-on oversampling and undersampling** by the faculty.

[car-mpg.csv](#)

The above notebook has been used in the hands-on notebook week 1 that is shown in video **1.7 Hands-on Lasso-Ridge regression model** by the faculty.

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