

If you have a GPU with CUDA support, try to install Parallel Computing Toolbox and then test whether the GPU is used: `gpuDeviceCount()` or `gpuDevice(1)`. Learning will work faster.

1. Build a linear model
 - (a) Analyze the notebook python: 1. GDP - Model based learning.
 - (b) Open with Excel or with Text editor the `gdp.csv`
 - (c) Open matlab
 - (d) In Command Windows, use the function `readTable("filename.csv")` for reading the `csv` file
 - (e) Open regressionLearner (either by writing regressionLearner or by clicking in Apps)
 - (f) Create New Session - and choose your dataset
 - (g) Select the proper class and feature set (Satisfaction should be predicted - si select it for *Response*, while *Country* should be eliminated from Predictors)
 - (h) Choose the Linear Model
 - (i) Train and analyse
 - (j) Export it
 - (k) Load `gdp_for_test.csv` data
 - (l) use `predictFcn` for applying the model on the test data
2. Use live script `iris_first_example.mlx` to get used to Classification Learner. Try to follow all the steps.

Observation - pay attention to the name of the saved model (at the export step and the next steps from `mlx`)
3. Repeat the experiment for the data from Californian Houses: use either the original data, either the processed data. Compare the results.

Think about new predictors (features) derived from latitude/longitude.
4. Redo the training on housing and analyse ROC curve also, for several models.

5. Try learning of Credit Card Fraud Detection - pay attention to the size of the dataset - it is recommended to have 16GbRam and to work on GPU. Alternative: you can load the saved model: `trainModelLogisticFraud.mat`. See how in *roc_curve.m*