

Create a Jupyter Notebook in Python3 which contains a machine learning model according to the below requirements **(9p)**:

- Use an appropriate regression model to make predictions based on feature ***"Years in education"***. The predicted indicator is ***"Homicide rate"*** and its values will be picked up from **oecd_bli_2015.csv** (see **01_the_machine_learning_landscape.ipynb**). Visualize the existing data **(1p)**
- Split the dataset into two subsets: training dataset and testing dataset by considering stratification/structure of data (stratified sample). Repeat this operation 3 times to get 3 different splits of the above dataset into **(training_data, testing_data)**. **(2p)**
- Train 3 times the chosen regression model with the above 3 training datasets by removing the non-representative instances from each training dataset. **(1p)**
- Evaluate the model performance measures for each of 3 training datasets. **(2p)**
- Re-evaluate the model performance using cross-validation for each training dataset. **(1p)**
- Test the model with the 3 test datasets obtained above. **(1p)**
- Print out performance differences between the 3 datasets and choose the better one. **(1p)**