**Assignment 2**

## I pick a dataset from Kaggle.com it’s a trend and how they change with exercise

<https://www.kaggle.com/aroojanwarkhan/fitness-data-trends/data>

I apply machine learning modeling on it.

**Why you have chosen this dataset?**

I’m so familiar dealing with Classification, I found the data set easy since all column numeric also, the Feeling of activeness was measured in either "Active" or "Inactive" which were given numeric values of 500 and 0 and this can split the data set in good way

**Did you make some changes inside the dataset?**

Yes, I had a column for a date, and I made some improvements and deleted this column because it caused me a lot of problems because it is a factor or in other words string

**What have you learned? It can be things you learned from the dataset or can be anything related to applying machine learning modelling and python programming.**

Model: A machine learning model can be a mathematical representation of a real-world process. To generate a machine learning model you will need to provide training data to a machine learning algorithm to learn from.

While training for machine learning, you pass an algorithm with training data. The learning algorithm finds patterns in the training data

**What are the benefit of modelling?**

We build models to communicate the desired structure and behavior of our system.

We build models to visualize and control the system's architecture.

We build models to better understand the system we are building

**Building and evaluating classification Algorithms by witch models ?**

* predictions on validation with KNeighbors Classifier
* predictions on validation with SVC Classifier
* predictions on validation with DecisionTreeClassifier

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