Introduction to Brain and Machine Learning (BNCS411)

**Assignment #3**

Due Date: 2021-11-28

**Dataset**

* The breast cancer dataset contains a total of 569 sample sets of either benign or malignant with 30 features.
* It can be easily loaded using the function of Scikit-learn: [Breast cancer description](https://scikit-learn.org/stable/modules/generated/sklearn.datasets.load_breast_cancer.html#sklearn.datasets.load_breast_cancer)

**Objective**

* Implementation of a multi-layer perceptron (MLP) model that achieves more than 80% diagnostic performance.

**Implementation Instructions**

* Write your codes in the given assignment file using Google Colab.
* There is no limitation on the number of cells where you write the codes in the implementation section.
* Describe your codes and analysis by using markdown scripts.
* **(IMPORTANT) Submit the \*.ipynb file executed in the specified template.**
  + File name: “Assignment\_3\_**yourID**.ipynb”

TA’s note: Beware of plagiarism (we use proprietary plagiarism checkers in addition to BlackBoard plagiarism checker). Ask the TAs if you have any questions.