# **Data Science Assignment**

**Instructions:**

The following exercise simulates real-world data and challenges you might encounter while working at Owlytics Healthcare. Please read the description below and use the attached files for your solution.

We expect a clean and functioning code, outcomes and a short report (1-2 pages maximum).

Your report should contain a description of the analysis you conducted and your solution to the problem. You may use any programming language, if you choose not to use Python, please include a short guide on how to compile and run your code.

You are given a dataset from the UCR archive, the data contains 500 training samples and almost 5 times more test samples

Your goal is to create an algorithm that classifies each sample from the test set into one of the 5 categories on the train set.

**Section 1. Data Analysis:**

Analyze the data and present your insights from the analysis you have performed

**Section 2. Data Modeling:**

Create a model for the described classification task

**Section 3. Results:**

Analyze and describe the results you got from the model