

Assignment No. 1

The goal of this assignment is to make you familiar with python and the libraries which we use for the development of machine learning algorithms. It will also help you to familiarize with the open-source datasets.

Task.

Download the dataset from the following link:

<https://data.mendeley.com/datasets/cydmwsfztj/1>

In the images folder, you will see 12 folders which are from 12 human donors at different stages of type 1 diabetes. Each folder contains a number of images in tiff format. The images folder also contains an excel file with the name 'Metadata'. The first column contains the name of the image, second column tells the folder name and the last column tells the stage of each image. So the stage column is the desired output column and this makes this problem a supervised learning problem.

Write a python code in Colab by using keras and other supporting libraries to load the dataset and apply any machine learning model of your choice such as neural network by using the libraries. Train the model on Colab's GPU and perform classification. At this stage there is no need to dig deep in the algorithm, just implement with the help of libraries.

Please let me know if you have any query.