Case Challenge Active Learning for Efficient Data Labelling

**Title**

Efficient Data Labelling

**Motivation and high-level task description**

In many real-world machine learning applications, obtaining high-quality labels of unstructured data is a crucial step in the development process. This task is not only labor intensive but also prone to errors. Your task will be to implement an active learning strategy to minimize the labelling effort.

**Brief description of the dataset used in the process**

The MNIST dataset (<https://www.tensorflow.org/datasets/catalog/mnist>) is a labelled dataset of hand-written digits, which can be used to simulate the labelling process.

**Brief description of the expected deliverable**

Apart from the submitted code, you should implement a simple web application for the labelling process.