SVMs for People Detection: Description

In this exercise, you will use Support Vector Machines (SVM) model to build a model that can detect if there are people in the image. For instance, we want our model to be able to predict that there are people in the image displayed below.

You will be given a set of visual features describing a set of training and testing images like the one illustrated above. Your goal will then be to use a matlab built-in SVM toolbox to train a people detection model, and apply it on the new images.

In case you want to work on this problem outside of the EdX environment, we provide the required data files here: Lab11.zip.

Note that the parts 2,3, and 4 of this Lab rely on the code written in part 1 (i.e. Standardizing the Data). Therefore, if you are working outside of the EdX environment, you need to complete part 1 before proceeding to parts 2,3, and 4. If you are working inside the EdX environment, it is highly recommended but not necessary to complete part 1 before the other parts. We also point out that even if your code in part 1 is incorrect, you can still get the full credit for parts 2,3 and 4 if they are implemented correctly.