[ML' 22] Support Vector Machines Assignment

Solve the dog-cat classification problem from Kaggle

- 1. Download the train dataset from here: https://www.kaggle.com/c/dogs-vs-cats/data
- 2. Use 1000 cat images and 1000 dog images for training and 100 cat images and 100 dog images for testing
- 3. Extract the features of the training set using HOG.

- 4. Use the extracted features (fd) to train **SVM** on the training dataset with an appropriate kernel function.
- 5. Test the trained model and calculate the accuracy the test dataset.