

Standard Classification

1. Download Animals with Attributes (AWA2) dataset from <https://cvml.ist.ac.at/AWA2/>. This dataset consists of 37322 images of 50 animal classes with pre-extracted deep learning features for each image. Split the images in each category into 60% for training and 40% for testing. You can use K-fold cross-validation within the training set to determine hyper-parameters.
2. Use linear regression, logistic regression, linear discriminant analysis, and SVM for image classification based on the deep learning features.
3. Summarize your experimental results and write a project report in English. The project report should contain the experimental results you obtained, and the experimental observations based on your experimental results.