Machine Learning 2023 spring

Final project: Animal Recognition

Train your model to do Animal Recognition for three different image styles. For each style, the testing images contain 10 categories, including dog, cat, horse, spyder, butterfly, chicken, sheep, cow, squirrel, and elephant. For the training data, you can transfer the original images in HW4 to different image styles, or find the extra images on Internet.

Style 1: Cartoon

Style 2: Painting

Style 3: Sketching

Please select one of the following topics to do:

1. Train a model to get a high prediction accuracy under a certain image style.
2. Train a model to get a high prediction accuracy under three image styles.
3. Train several models and compare their performance under a certain image style.
4. Train several models and compare their performance under three image styles.

Remind:

The Final project presentation will be held on June 14-16. Each group needs to present your work to the professor, with a slide, for 20 minutes. After the presentation, TA will send the testing images for you and evaluate your prediction accuracy. Besides, you need to write a report of word format that introduces how you do this project in detail. Finally, you need to upload a slide, a word report, and your codes before June 19. Note that, we will have a check point on June 1-2 for you to check how you do this project.