



n0018.jpg

Compressed 37.5 KB
Uncompressed 37.62 KB



n0019.jpg

Compressed 214.36 KB
Uncompressed 214.55 KB



n0020.jpg

Compressed 52.35 KB
Uncompressed 52.47 KB



n7021.jpg

Compressed 124.77 KB
Uncompressed 124.96 KB



n7022.jpg

Compressed 74.26 KB
Uncompressed 74.28 KB



n7023.jpg

Compressed 282.71 KB
Uncompressed 289.13 KB



n3020.jpg

Compressed 321.94 KB
Uncompressed 322.71 KB



n3021.jpg

Compressed 24.75 KB
Uncompressed 24.99 KB



n3022.jpg

Compressed 1.07 MB
Uncompressed 1.07 MB

COMP47590

Advanced Machine Learning

Lab Task 4: Monkey Classification

Introduction

The monkey species classification tasks from Kaggle <https://www.kaggle.com/slothkong/10-monkey-species/home> involves recognising 10 different species of monkey from disparate image types. The task is to build an accurate classification model for this scenario using different types of CNN model.

Tasks

1. Download this dataset and load it for use in training a machine learning model.
2. Explore the use of a basic LeNet type CNN model for this task.
3. Explore the use of a model employing a VGG-16 architecture for this task (**WARNING:** this might take a long time to train).
4. Explore the use of a fine-tuned VGG-16 model using pre-trained features for this task.
5. Evaluate the performance of each model type using an appropriate dataset partitioning technique and performance measure.