

Homework 2 - Image Classification

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1 Classic Classifier

1.1 Loading Dataset

1.2 K-Nearest Neighbors

1.3 Evaluation on Test Set

1.4 Analysis of K Value

2 Convolution Neural Network

2.1 Baseline CNN

2.2 Designing Our Own CNN

2.3 Training and Evaluation

3 Foundation Models

3.1 Embedding Space of T-SNE

3.2 Embedding Space of CLIP

3.3 Classification with CLIP Textual Embeddings

3.4 Counting Objects in Images