

HW1 Part A Report Minh Nguyen

1. Differences between unsupervised image segmentation methods and supervised semantic image segmentation methods:
 - Unsupervised image segmentation:
 - No labeled data
 - Identify structures, patterns within the image using techniques like clustering
 - Supervised semantic image segmentation:
 - Use labeled data
 - Train a model that can accurately classify each pixel in an image into one of the predefined semantic categories
2. Well known methods:
 - Unsupervised image segmentation:
 - K-means clustering (with Elbow or Silhouette)
 - Mean-shift clustering
 - Supervised semantic image segmentation:
 - CNN
 - OpenCV
 - PyTorch