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CMPS 3240

Project Proposal

1. Feature Extraction from Images
2. The problem this project is trying to address is coming up with an algorithm that can extract features usually used in computer vision/image processing techniques so that they can be more easily implemented in machine learning algorithms.
3. This is interesting because the machine learning algorithms we’ve learned in class deals with us deciding which features to use for our algorithms to develop a good hypothesis function, but the act of extracting features from images is not easy to do.
4. Input space will be different images.
5. Output space will be the words and phrases identifying the subjects in the image.
6. I’m going to use the data from <http://www.imageclef.org/SIAPRdata>
7. This will focus on supervised learning since the segments of each photo are already labeled with the subjects in the images.