Course Project Proposal

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1. Project goal:

Building an improved classifier for entailment relations of adjective-noun (at) and noun (n). Example: Black cat |= cat

1. Data:

AN |= N dataset and Distributional Semantic dataset: Baroni et al., 2012

1. Evaluation Method:

Using Precision, Recall and F-score

1. Baseline:

balAPinc measure proposed by Kotlerman et al. (2010)

1. Proposed method:

Building classifiers using different ML techniques (SVM – has been implemented, Neural Network – new proposed approach) combining with Distributional Semantics (approximation vectors of linguistic meanings of word/phrases) to classify AN-N relationships.

1. Sample result chart:

|  |  |
| --- | --- |
|  | Accuracy |
| Baseline |  |
| DS + SVM |  |
| DS + NN |  |