作业总体要求

- ** 人至少完成候选题目中的三个
- 使人的方法模型不限、编程语言不限
- 要求表

 - 代码:源码及

- Chinese word segmentation: 10 points
 - This task provides PKU data as training set and test set (e.g., you can use 80% data for model training and other 20% for testing), and you are free to use data learned or model trained from any resources.
 - Evaluation Metrics:
 - Precision = (Number of words correctly segmented)/
 (Number of words segmented) * 100%
 - Recall = (Number of words correctly segmented)/(Number of words in the reference) * 100%
 - F measure = 2*P*R / (P+R)

ext classification: 10 points

- each 20 online newgroups, for a total of 20,000 articles posted to http://www.newgroups.and.download, see http://www.newgroups.cmu.edu/afs/cs/project/theo-11/www/newgroups.html.
- The "label" of the 20 newsgroups it by the newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the description of the 20 newsgroups (labels) are hierarchically of the 20 newsgroups (labels) are hierarchical

- art-of-speech tagging: 20 points
- The data set contains one month of Chinese daily who have segmented and POS tagged under Peking my standard.
- Project id
 - Design a sequence learning method to predicate a POS tags for each ways and the predicate as POS.
 - Use 80% data for hand ning and other 20% for testing (or 5-fold cross didation to test learner's performance. So it could be interesting to separate dataset.)

- Named entity recognition: 20 points
 - Named entities: people names, organizations, locations, numerals, etc
 - Your objective is to build a machine learning named entity recognition system, which when given a new previously unseen text can identify and classify the named entities in the text. This means that your system should annotate each word in the text with one of the four possible classes.
 - You will be given labeled data sets to train and test your model.

- Veb Content Identification: 20 points
- Project ideas.
 - Learning classification the type of webpage from the text
 - Can you improve accuracy by exploiting correlations between pages that point to each other using graphical models?

- Detecting sentiment polarity: 20 points
 - Given text about movie reviews
 - Can we detect sentiment, like whether a comment is
 - Positive?
 - Negative?
 - Can we tell to what extent is a comment positive of negative?
- Data:
 - 5331 positive snippets
 - 5331 negative snippets
- Other resources:
 - The Subjectivity Lexicon

- Word sense disambiguation: 20 points
 - Implement the simplified word sense disambiguation algorithm, and apply it to disambiguate a target ambiguous word in context.
 - For evaluation, use the dataset provided and the sense definitions provided by Wikipedia.
 - Note that you have to apply your own pre-processing to the content of the Wikipedia page (e.g., include the entire page or only certain sections; include the titles of the linked articles or not; etc.).
 - The quality of the pre-processing may affect the quality of your results. Report the accuracy of each word (i.e., number of instances correctly disambiguated).

More to be added...