

07. WU, Ziming, Feng HAN, Song LIU. Whether and why are people feeling happy? Multi-Task Mining Based on Text-based Information.

*Summary of the report.*

To evaluate the text by the VAD model and to classify the text in different classes, there are many dimensions to be calculated. A multi-task model is used to evaluate the data across these dimensions.

*Describe the strengths of the report.*

Advanced methods are utilized.

*Describe the weaknesses of the report.*

Fig 2, 3 are not very meaningful but occupy very large area of the poster.

*Evaluation on quality of writing (1-5):*

3

*Evaluation on presentation (1-5):*

3

*Evaluation on creativity (1-5):*

3

*Confidence on your assessment (1-3):*

2

### **01. WU-HAN-LIU\_poster**

#### 01. Summary

The poster gives a task solved using machine learning methods (multi-task mining).

#### 02. Describe the strengths of the report.

The algorithms are presented in graphs which are clear

#### 03. Describe the weaknesses of the report.

The conclusion is not related to the described problems and only focused on the model. The reader cannot get the valuable information related to their tasks.

#### 04. Evaluation on quality of writing (1-5): 3

#### 05. Evaluation on presentation (1-5): 3

#### 06. Evaluation on creativity (1-5):3

#### 07. Confidence on your assessment: 2

### **Group 7**

#### Summary of the report

Compare 2 methods on clustering the HappyDB.

#### Strength

The methods itself seems fancy and complicated.

### Weakness

Difficult to understand how this report related to dimension reduction. Classification experiment seem too simple. Motivation to use the methods is not explain well.

Evaluation on quality of writing (1-5): 2

Too much space for the methods, expected more on the result and discussion or experiment itself.

Evaluation on quality of presentation (1-5): 2

Sounds robotic, not a human presentation; the narrative could be better for communication; the PowerPoint could be better; The story telling could be improved.

Evaluation on quality of creativity (1-5): 2

Same dataset as midterm, same no explanation on the gap between their experiment and dimension reduction, but easier to understand the idea of classification.

Confidence on your assessment (1-3): 1

## **7. Whether and why are people feeling happy? Mining Affective Events Based on Text-based Information**

- **Summary of this report:** In this report, the deep learning methods mainly the HPS method and the DPS method are used to analyze the HappyDB dataset. This report demonstrates the possibility of characterizing happiness computationally.
- **Describe the strengths of the report:** The topic of this report is very interesting. The methodologies are reasonable and well organized. The comparisons between the HPS method and the DPS method are well written.
- **Describe the weaknesses of the report:** The discussions of the results are a little few. Some descriptions about these two methods should be added to make readers understand better.

- **Evaluation on presentation:4** The presentation is clear and well organized but again, there are too many texts. In background part, it would be better to see pictures not texts.
- **Evaluation on Clarity and quality of writing (1-5): 5**  
The writing is good no typos are found
- **Evaluation on creativity (1-5): 5**  
The deep learning method used in this report is highly technical.
- **Overall ratings: 4.5**
- **Confidence on your assessment: 3**  
I am not familiar with the method using in this report. So my assessment may be wrong.

1. Whether and why are people feeling happy? Multi-Task Mining Based on Text-based Information Summary:  
Employment of multi-task models to evaluate the HappyDB dataset.

Strength of the project:

Ambitious and nice attempt of using multi-task model to try to further boost the classification efficiency.

Weakness of the project:

More details about the dataset and model implementation process should be explained. Moreover, the advantage of the multi-task models over the traditional neural networks should be mentioned in greater detail in order to account for the result in Figure 4.

Evaluation on Clarity and quality of writing (1-5):	3.5
Evaluation on Technical Quality (1-5):	4.5
Overall rating:	4
Confidence on your assessment:	2

07. WU, Ziming, Feng HAN, Song LIU. Whether and why are people feeling happy? Multi-Task Mining Based on Text-based Information.

**Summary:** The authors use multi-task learning to study the HappyDB dataset. It is found that multi-task model has better performance than single-task model.

**Strengths:** The report is clear. The authors make a comparison of different models.

**Weakness:** It would be better if the authors can have a deeper analysis of the results.

**Evaluation on quality of writing: 4**

**Evaluation on presentation: 3**

**Evaluation on creativity: 3**

**Confidence on your assessment: 2**

#### 07.WU-HAN-LIU\_poster

Summary:

The project analysed the emotions expressed in the dataset of HappyDB using Multi-tasking learning. And it made a comparison of MTL and single-task model. However, the project didn't show enough explanation of the relationship between model results and the dataset.

Evaluation on Clarity and quality of writing (1-5):	4
Evaluation on Technical Quality (1-5):	3
Overall rating:	4
Confidence on your assessment:	2

## Whether and why are people feeling happy? Multi-Task Mining Based on Text-based Information

### 6.1 Summary

For Wu Ziming, Han Feng and Liu Song's work, they used Multitask model to extract features from the HappyDB dataset. They compared the difference between multi-task model and single task model.

### 6.2 Strength and Weakness

The strength of their work is that they introduce the dataset and a new method comprehensively in the poster, the explanation is quite detailed. The weakness of their work is that the content of result is not enough for their topic.

### 6.3 Score

#### 6.3.1 Clarity and Quality of Writing

The arrangement and structure of the poster is good, but I will suggest them to reduce the length of introduction (dataset and method). The result and conclusion are just comparing multitask model and single task model over two aspects. I will give them 3/5 on this aspect.

#### 6.3.2 Presentation

Clear slides and fluent presentation, 5/5

#### 6.3.3 Creativity

Did not know the creativity over this area. 3/5

#### 6.3.4 Overall

3.7/4

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In this work, authors used VAD model to express the emotions in the text followed by a multi-task model for further classification on HappyDB dataset. Comparison among the front V, A and D model, and comparison between the rear multi-task model and single-task model are conducted. Authors concluded that multi-task model is more suitable for this specific task.

Strengths: This work is complete.

Weakness: Authors adopted multi-task deep learning method on the HappyDB dataset. I would raise my concern on this project of its relevance to this course, because this dataset is not included in the project instructions. Authors should make a justification on the relevance.

Evaluation on quality of writing (3): This poster is moderate in written. The author should bring enough mathematical insight during this project rather than directly adopt a deep learning architecture to achieve a certain goal.

Evaluation on presentation (3): This work is moderate in presentation.

Evaluation on creativity (2): As discussed in Weakness and written part, this work is lack of mathematical insight, so that we can not learn much from this work which is not preferable.

Confidence on your assessment(2)

