# 50.007 Machine Learning

## Design Project

### Tan Jun Qi (1000382), Ren Yang (1000959), Hazel Lau (1001150)

## Part 2

### Approach

Meow

### Results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **EN** | **ES** | **SG** | **CN** |
| Entity in Gold Data | 662 | 1326 | 4779 | 935 |
| Entity in Prediction | 3845 | 8490 | 24547 | 8165 |
| **Correct Entity** | **180** | **357** | **1357** | **180** |
| Entity Precision | 0.0468 | 0.0420 | 0.0553 | 0.0220 |
| Entity Recall | 0.2719 | 0.2692 | 0.2840 | 0.1925 |
| Entity F-Score | 0.0799 | 0.0727 | 0.0925 | 0.0396 |
| **Correct Sentiment** | **24** | **73** | **303** | **37** |
| Sentiment Precision | 0.0062 | 0.0086 | 0.0123 | 0.0045 |
| Sentiment Recall | 0.0363 | 0.0551 | 0.0634 | 0.0396 |
| Sentiment F-score | 0.0107 | 0.0149 | 0.0207 | 0.0081 |

## Part 3

### Approach

Meow

### Results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **EN** | **ES** | **SG** | **CN** |
| Entity in Gold Data | 662 | 1326 | 4779 | 935 |
| Entity in Prediction | 894 | 1339 | 3566 | 1307 |
| **Correct Entity** | **144** | **384** | **889** | **378** |
| Entity Precision | 0.1611 | 0.2868 | 0.2493 | 0.2892 |
| Entity Recall | 0.2175 | 0.2896 | 0.1860 | 0.4043 |
| Entity F-Score | 0.1851 | 0.2882 | 0.2131 | 0.3372 |
| **Correct Sentiment** | **90** | **176** | **436** | **237** |
| Sentiment Precision | 0.1007 | 0.1314 | 0.1223 | 0.1813 |
| Sentiment Recall | 0.1360 | 0.1327 | 0.0912 | 0.2535 |
| Sentiment F-score | 0.1157 | 0.1321 | 0.1045 | 0.2114 |

## Part 4

### Approach

Meow

### Results

|  |  |  |
| --- | --- | --- |
|  | **EN** | **ES** |
| Entity in Gold Data | 662 | 1326 |
| Entity in Prediction |  |  |
| **Correct Entity** |  |  |
| Entity Precision |  |  |
| Entity Recall |  |  |
| Entity F-Score |  |  |
| **Correct Sentiment** |  |  |
| Sentiment Precision |  |  |
| Sentiment Recall |  |  |
| Sentiment F-score |  |  |

## Part 5

### Approach

Meow

### Results

|  |  |  |
| --- | --- | --- |
|  | **EN** | **ES** |
| Entity in Gold Data | 662 | 1326 |
| Entity in Prediction |  |  |
| **Correct Entity** |  |  |
| Entity Precision |  |  |
| Entity Recall |  |  |
| Entity F-Score |  |  |
| **Correct Sentiment** |  |  |
| Sentiment Precision |  |  |
| Sentiment Recall |  |  |
| Sentiment F-score |  |  |