**Date 11/29:**

(base) xingyuchen@XingyudeMacBook-Pro-2 NLPSharedTask4 % Rscript src/R/Evaluation.R --data-dir data/ --predictions predictions.tsv

===> Loading files...

===> Evaluating predictions...

Method Label Precision Recall F1 Accuracy

1-Baseline Self-direction: thought 0.17 1 0.3 0.17

1-Baseline Self-direction: action 0.26 1 0.41 0.26

1-Baseline Stimulation 0.06 1 0.11 0.06

1-Baseline Hedonism 0.04 1 0.07 0.04

1-Baseline Achievement 0.27 1 0.42 0.27

1-Baseline Power: dominance 0.09 1 0.16 0.09

1-Baseline Power: resources 0.11 1 0.2 0.11

1-Baseline Face 0.07 1 0.13 0.07

1-Baseline Security: personal 0.38 1 0.55 0.38

1-Baseline Security: societal 0.31 1 0.48 0.31

1-Baseline Tradition 0.11 1 0.21 0.11

1-Baseline Conformity: rules 0.23 1 0.38 0.23

1-Baseline Conformity: interpersonal 0.04 1 0.08 0.04

1-Baseline Humility 0.08 1 0.15 0.08

1-Baseline Benevolence: caring 0.29 1 0.45 0.29

1-Baseline Benevolence: dependability 0.15 1 0.26 0.15

1-Baseline Universalism: concern 0.38 1 0.55 0.38

1-Baseline Universalism: nature 0.07 1 0.13 0.07

1-Baseline Universalism: tolerance 0.14 1 0.24 0.14

1-Baseline Universalism: objectivity 0.18 1 0.3 0.18

**1-Baseline Mean 0.17 1 0.29 0.17**

Bert Self-direction: thought 0.93 0.87 0.9 0.97

Bert Self-direction: action 0.95 0.9 0.92 0.96

Bert Stimulation 0.88 0.51 0.64 0.97

Bert Hedonism 0.93 0.64 0.76 0.98

Bert Achievement 0.94 0.9 0.92 0.96

Bert Power: dominance 0.94 0.59 0.72 0.96

Bert Power: resources 0.92 0.9 0.91 0.98

Bert Face 0.95 0.47 0.63 0.96

Bert Security: personal 0.94 0.94 0.94 0.95

Bert Security: societal 0.96 0.9 0.93 0.96

Bert Tradition 0.94 0.87 0.9 0.98

Bert Conformity: rules 0.94 0.88 0.91 0.96

Bert Conformity: interpersonal 0.98 0.64 0.77 0.98

Bert Humility 0.96 0.73 0.83 0.97

Bert Benevolence: caring 0.94 0.91 0.92 0.96

Bert Benevolence: dependability 0.97 0.76 0.85 0.96

Bert Universalism: concern 0.95 0.92 0.94 0.95

Bert Universalism: nature 0.99 0.87 0.93 0.99

Bert Universalism: tolerance 0.91 0.82 0.86 0.96

Bert Universalism: objectivity 0.93 0.83 0.88 0.96

**Bert Mean 0.94 0.79 0.86 0.97**

SVM Self-direction: thought 0.93 0.85 0.89 0.96

SVM Self-direction: action 0.93 0.87 0.9 0.95

SVM Stimulation 0.93 0.78 0.85 0.98

SVM Hedonism 0.94 0.83 0.88 0.99

SVM Achievement 0.93 0.86 0.9 0.95

SVM Power: dominance 0.93 0.85 0.89 0.98

SVM Power: resources 0.95 0.88 0.91 0.98

SVM Face 0.96 0.91 0.93 0.99

SVM Security: personal 0.92 0.88 0.9 0.93

SVM Security: societal 0.94 0.88 0.91 0.95

SVM Tradition 0.95 0.81 0.88 0.97

SVM Conformity: rules 0.89 0.89 0.89 0.95

SVM Conformity: interpersonal 0.98 0.9 0.94 1

SVM Humility 0.94 0.85 0.89 0.98

SVM Benevolence: caring 0.9 0.89 0.9 0.94

SVM Benevolence: dependability 0.89 0.87 0.88 0.97

SVM Universalism: concern 0.93 0.88 0.9 0.93

SVM Universalism: nature 0.99 0.88 0.93 0.99

SVM Universalism: tolerance 0.87 0.84 0.86 0.96

SVM Universalism: objectivity 0.92 0.82 0.87 0.95

**SVM Mean 0.93 0.86 0.89 0.97**

**Date 11/28:**

**Run docker:**

(base) xingyuchen@rgnt1-28-222-dhcp repo\_white\_paper % TAG=0.1.1-nocuda

(base) xingyuchen@rgnt1-28-222-dhcp repo\_white\_paper % GPUS=""

(base) xingyuchen@rgnt1-28-222-dhcp repo\_white\_paper % docker run --rm -it --init $GPUS \

--volume "$PWD/webis-argvalues-22:/data" \

--volume "$PWD/models:/models" \

--volume "$PWD:/output" \

ghcr.io/webis-de/acl22-value-classification:$TAG \

python predict.py --classifier bos --levels "2"

**Output:**

===> Bert: Predicting Level 2...

100%|████████████████████████████████████| 5220/5220 [00:00<00:00, 14767.33ex/s]

100%|████████████████████████████████████| 5220/5220 [00:00<00:00, 16715.13ex/s]

100%|█████████████████████████████████████████████| 6/6 [00:00<00:00, 14.29ba/s]

100%|█████████████████████████████████████████████| 6/6 [00:00<00:00, 16.20ba/s]

\*\*\*\*\* Running Prediction \*\*\*\*\*

Num examples = 5220

Batch size = 8

100%|█████████████████████████████████████████| 653/653 [07:10<00:00, 1.52it/s]

===> SVM: Predicting Level 2...

===> 1-Baseline: Predicting Level 2...

===> Writing predictions...

**Evaluation:**

(base) xingyuchen@rgnt1-28-222-dhcp repo\_white\_paper % Rscript src/R/Evaluation.R --data-dir webis-argvalues-22/ --predictions predictions.tsv

Warning message:

package ‘rlang’ was built under R version 4.1.2

===> Loading files...

No file for level 1 found.

No file for level 3 found.

No file for level 4a found.

No file for level 4b found.

===> Evaluating predictions...

Method Level Label Precision Recall F1 Accuracy

1-Baseline 2 Self-direction: thought 0.17 1 0.3 0.17

1-Baseline 2 Self-direction: action 0.26 1 0.41 0.26

1-Baseline 2 Stimulation 0.06 1 0.11 0.06

1-Baseline 2 Hedonism 0.04 1 0.07 0.04

1-Baseline 2 Achievement 0.27 1 0.42 0.27

1-Baseline 2 Power: dominance 0.09 1 0.16 0.09

1-Baseline 2 Power: resources 0.11 1 0.2 0.11

1-Baseline 2 Face 0.07 1 0.13 0.07

1-Baseline 2 Security: personal 0.38 1 0.55 0.38

1-Baseline 2 Security: societal 0.31 1 0.48 0.31

1-Baseline 2 Tradition 0.11 1 0.21 0.11

1-Baseline 2 Conformity: rules 0.23 1 0.38 0.23

1-Baseline 2 Conformity: interpersonal 0.04 1 0.08 0.04

1-Baseline 2 Humility 0.08 1 0.15 0.08

1-Baseline 2 Benevolence: caring 0.29 1 0.45 0.29

1-Baseline 2 Benevolence: dependability 0.15 1 0.26 0.15

1-Baseline 2 Universalism: concern 0.38 1 0.55 0.38

1-Baseline 2 Universalism: nature 0.07 1 0.13 0.07

1-Baseline 2 Universalism: tolerance 0.14 1 0.24 0.14

1-Baseline 2 Universalism: objectivity 0.18 1 0.3 0.18

**1-Baseline 2 Mean 0.17 1 0.29 0.17**

Bert 2 Self-direction: thought 0.93 0.87 0.9 0.97

Bert 2 Self-direction: action 0.95 0.9 0.92 0.96

Bert 2 Stimulation 0.88 0.51 0.64 0.97

Bert 2 Hedonism 0.93 0.64 0.76 0.98

Bert 2 Achievement 0.94 0.9 0.92 0.96

Bert 2 Power: dominance 0.94 0.59 0.72 0.96

Bert 2 Power: resources 0.92 0.9 0.91 0.98

Bert 2 Face 0.95 0.47 0.63 0.96

Bert 2 Security: personal 0.94 0.94 0.94 0.95

Bert 2 Security: societal 0.96 0.9 0.93 0.96

Bert 2 Tradition 0.94 0.87 0.9 0.98

Bert 2 Conformity: rules 0.94 0.88 0.91 0.96

Bert 2 Conformity: interpersonal 0.98 0.64 0.77 0.98

Bert 2 Humility 0.96 0.73 0.83 0.97

Bert 2 Benevolence: caring 0.94 0.91 0.92 0.96

Bert 2 Benevolence: dependability 0.97 0.76 0.85 0.96

Bert 2 Universalism: concern 0.95 0.92 0.94 0.95

Bert 2 Universalism: nature 0.99 0.87 0.93 0.99

Bert 2 Universalism: tolerance 0.91 0.82 0.86 0.96

Bert 2 Universalism: objectivity 0.93 0.83 0.88 0.96

**Bert 2 Mean 0.94 0.79 0.86 0.97**

SVM 2 Self-direction: thought 0.93 0.85 0.89 0.96

SVM 2 Self-direction: action 0.93 0.87 0.9 0.95

SVM 2 Stimulation 0.93 0.78 0.85 0.98

SVM 2 Hedonism 0.94 0.83 0.88 0.99

SVM 2 Achievement 0.93 0.86 0.9 0.95

SVM 2 Power: dominance 0.93 0.85 0.89 0.98

SVM 2 Power: resources 0.95 0.88 0.91 0.98

SVM 2 Face 0.96 0.91 0.93 0.99

SVM 2 Security: personal 0.92 0.88 0.9 0.93

SVM 2 Security: societal 0.94 0.88 0.91 0.95

SVM 2 Tradition 0.95 0.81 0.88 0.97

SVM 2 Conformity: rules 0.89 0.89 0.89 0.95

SVM 2 Conformity: interpersonal 0.98 0.9 0.94 1

SVM 2 Humility 0.94 0.85 0.89 0.98

SVM 2 Benevolence: caring 0.9 0.89 0.9 0.94

SVM 2 Benevolence: dependability 0.89 0.87 0.88 0.97

SVM 2 Universalism: concern 0.93 0.88 0.9 0.93

SVM 2 Universalism: nature 0.99 0.88 0.93 0.99

SVM 2 Universalism: tolerance 0.87 0.84 0.86 0.96

SVM 2 Universalism: objectivity 0.92 0.82 0.87 0.95

**SVM 2 Mean 0.93 0.86 0.89 0.97**