ORES Custom Documentation II

 $\label{linear} \textit{Disclaimer: No guarantee for the correctness of information / explanations / sources is given.}$

1 Basic API Usage

• http://ores.wmflabs.org/v3/scores/enwiki/?models=draftquality| wp10&revids=34854345|485104318

Scoring, Context = enwiki, Models (2), RevIDs (2)

2 ORES Scoring Documentation

https://ores.wikimedia.org/v3/#/

• https://ores.wikimedia.org/v3/scores

Lists all available contexts (wikis) for scoring

```
"enwiki": {
    "models": {
        "version": "0.6.1"
    },
    "damaging": {
        "version": "0.4.0"
    },
    "draftquality": {
        "version": "0.1.0"
    },
    "drafttopic": {
        "version": "0.1.0"
    },
    "goodfaith": {
        "version": "0.4.0"
    },
    "wp10": {
        "version": "0.6.1"
    }
}

enwiktionary": {
    "reverted": {
        "version": "0.4.0"
    }
}

sewiki": {
    ...
```

Models: reverted, damaging, goodfaith, articlequality, draftquality, drafttopic, wp10, pagelevel, itemquality

• https://ores.wikimedia.org/v3/scores/{context}

For example enwiki

Shows the specified context only

• https://ores.wikimedia.org/v3/scores/{context}/{revid}

Shows all scoring information on an edit of the specified context Find revision ID of any article: top right: View history \rightarrow click on time/data-link \rightarrow ID displayed in URL at the end

```
"enwiki": {
    "models": {
    "articlequality": {
      "version": "0.6.1"
    "version": "0.4.0"
    draftquality": {
"version": "0.1.0"
    },
"drafttopic": {
      "version": "0.1.0"
     goodfaith": {
"version": "0.4.0"
     'wp10": {
       .
"version": "0.6.1"
 },
"scores": {
    "870259881": {
      "articlequality": {
         "score": {
           "prediction": "B",
           probability": {
             "B": 0.5301044828795669,
             "C": 0.09410444935893472,
             "FA": 0.10609462640332888,
             "GA": 0.2630374655004465,
             "Start": 0.005353767142851241,
             "Stub": 0.001305208714871623
        }
      },
"damaging": { . . .
```

- https://ores.wikimedia.org/v3/scores/{context}/{revid}/{model}

 Furthermore a model can be specified
- Add /?model_info={ model_info } to any query (at the end!)

3 Specifying parameters

• From the paper: https://ores.wikimedia.org/v3/scores/enwiki/ ?models=damaging&model_info=statistics.thresholds.true.'maximumfilter_ rate@recall>=0.75'

(spaces: maximum filter_rate @ recall ≥ 0.75 ')

Information:

- only **damaging**-model
- model_info: **statistics** \leftarrow this is what we need for parameters in our *Visualisierung des Systemverhaltens*

4 Parameters

4.1 Model: Damaging

4.1.1 Thresholds

Interesting: model_info=statistics.thresholds.true

Show all true values of parameters (that are not in red below) with the threshold value from 0.002 to 0.987 (not every step, but many!)

Without ".true" \rightarrow we got double the results divided in false: [...] and true: [...]

4.1.2 Different parameters

- !f1
- !precision
- \bullet !recall
- accuracy
- counts
- f1
- filter_rate
- fpr
- match_rate
- pr_auc
- precision
- rates
- recall
- roc_auc

4.2 Model: Articlequality

4.2.1 Thresholds

Interesting: model_info=statistics.thresholds \rightarrow ".true" doesn't work

Lists for each article quality (Stub to FA) the values for each parameter, given a threshold

```
"enwiki": {
  "models": {
     "articlequality": {
       "statistics": {
         "thresholds": {
               "!f1": null,
               "!precision": null,
               "!recall": 0.0,
"accuracy": 0.035,
               "f1": 0.067,
               "filter_rate": 0.0,
               "fpr": 1.0,
                "match rate": 1.0,
                "precision": 0.035,
                "recall": 1.0,
               "threshold": 0.002
               "!f1": 0.003,
               "!precision": 1.0,
               "!recall": 0.002,
               "accuracy": 0.036,
               "f1": 0.067,
"filter_rate": 0.002,
               "fpr": 0.998,
               "match_rate": 0.998,
               "precision": 0.035,
               "recall": 1.0,
               "threshold": 0.003
```

4.2.2 Different parameters

Same as above.

5 Clearing up confusion about parameters from before

Paper page 15: "when a threshold is set on 0.299 likelihood of damaging=true, then you can expect to get a recall of 0.751, precision of 0.215, and a filter-rate of 0.88"

- Threshold on 0.299 of damaging=true \rightarrow if probability that an article is damaging \geq 0.299, then it is declared as damaging
- Recall: $0.751 \rightarrow \text{given threshold catches } 75.1\% \text{ of (most) damaging edits}$
- Precision: $0.251 \to \text{approx.} \frac{1}{4}$ of edits, declared as damaging, actually are

• Filter-rate: $0.88 \rightarrow \text{work of vandal-fighters reduced by } 88\%$

6 Specifying parameters II

6.1 Querying formulas

Paper:

- https://ores.wikimedia.org/v3/scores/enwiki/?models=damaging&model_info=statistics.thresholds.true.'maximumfilter_rate@recall>=0.75'

 write as "maximum filter_rate @ recall >= 0.75"
- maximum recall @ precision >= 0.9 produces:

```
"enwiki": {
  "models": {
    "damaging": {
      "statistics": {
        "thresholds": {
          "true": [
              "!f1": 0.984,
              "!precision": 0.969,
              "!recall": 1.0,
              "accuracy": 0.968,
              "f1": 0.154,
              "filter_rate": 0.997,
              "fpr": 0.0,
              "match_rate": 0.003,
              "precision": 0.902,
              "recall": 0.084,
              "threshold": 0.916
```

- maximum can be replaced with minimum
- \bullet >= can be replaced with <=
- Both parameters can be replaced with any from the list above (except threshold ofc, which is not a parameter)

Parameters to use in ORES' API queries

Example format: https://ores.wikimedia.org/v3/scores/enwiki/?models=damaging&model_info=statistics.thresholds.true.'maximumfilter_rate@recall>=0.75'

(spaces: maximum_filter_rate__@_recall_>=_0.75' or "%20" in HTTP)

- !f1
- !precision
- \bullet !recall
- accuracy
- f1
- filter_rate
- fpr
- match_rate
- \bullet precision
- \bullet recall