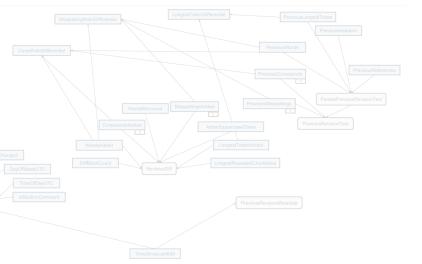
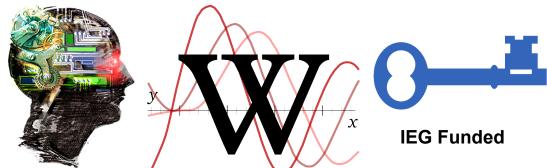
Revision Scoring as a Service



with Aaron Halfaker

[[User:EpochFail]]

[[User:Halfak (WMF)]]





https://commons.wikimedia.org/wiki/File:Artificial.intelligence.jpg

1. Al-based tools are critical for quality control in Wikipedia



<u> https://commons.wikimedia.org/wiki/File:Artificial.intelligence.jpg</u>

1. AI-based tools are critical for quality control in Wikipedia

2. Al is hard -- requires expertise



<u> https://commons.wikimedia.org/wiki/File:Artificial.intelligence.jpg</u>

1. Al-based tools are critical for quality control in Wikipedia

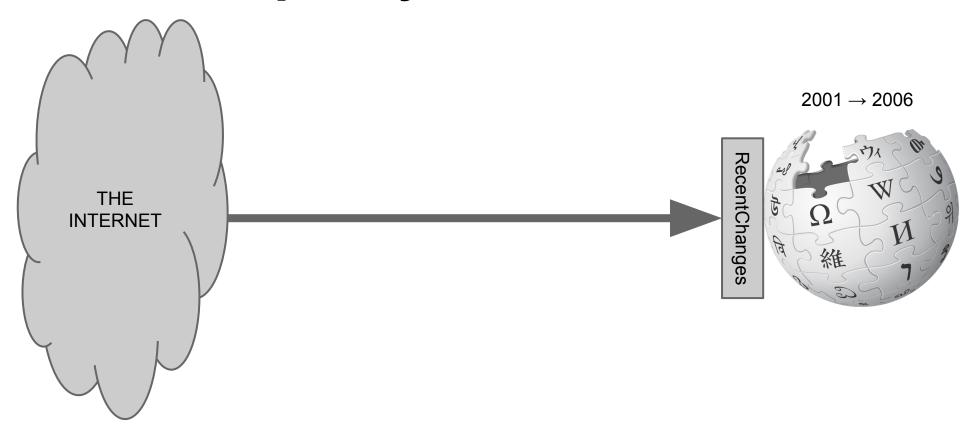
2. Al is hard -- requires expertise

3. Wrapping AI in libraries and services <u>enables</u> new tools



<u> https://commons.wikimedia.org/wiki/File:Artificial.intelligence.jpg</u>

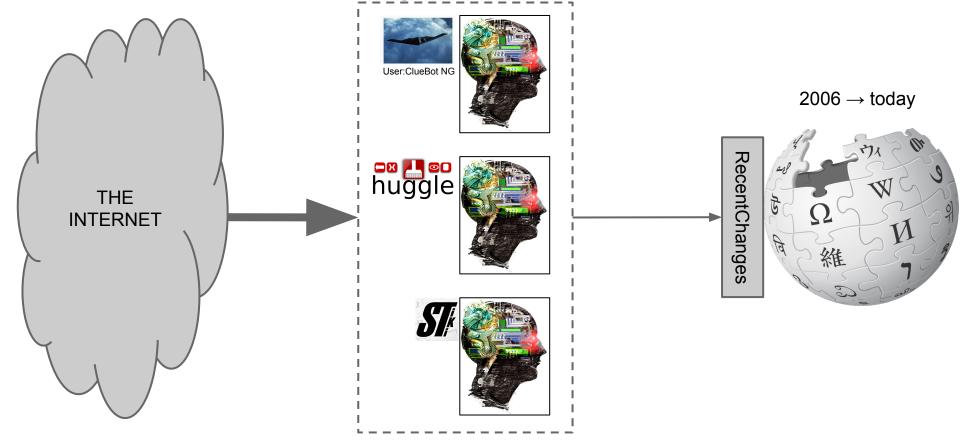
AI-based quality control



AI-based quality control



AI-based quality control



REVISION #638307884



SCORE

Revision as of 23:14, 10 December 2014 (edit)

Blaise Mann (talk | contribs)

m (Adding 1 category)

← Previous edit

Revision as of 03:47, 16 December 2014 (edit) (undo) (thank)

Eloquence (talk | contribs)

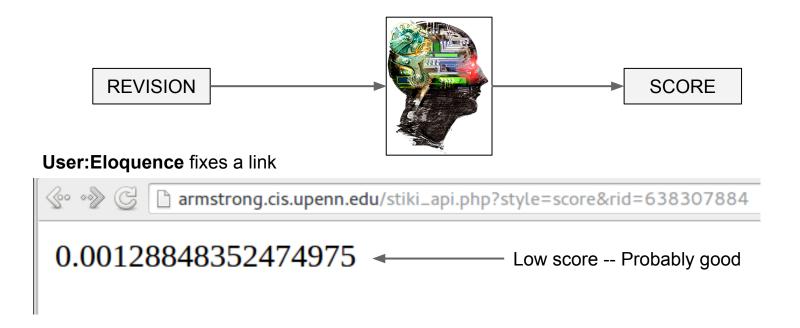
m (- Theater: link to disambiguated title (currently a redlink) instead of disambig page)

Next edit →

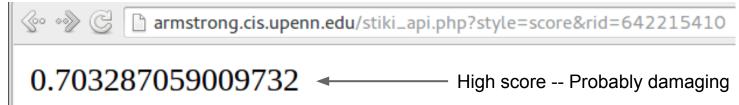
Line 35:

Line 35:

In 2013 Wilson, in collaboration with [[Mikhail Baryshnikov]] and co-starring [[Williem Dafoe]], developed "[[The Old Woman]]" an adaptation of the work by the Russian author [[Danili Kharms]]. The play premiered at MiF13, Manchester International Festival.-ref>{(Cite web]url = http://www.mif.co.uk/event/the-old-woman|title = The Old Woman Robert Wilson, Mikhail Baryshnikov, Willem Dafoe|date = 2013|accessdate = 2014-11-23|website = Manchester International Festival|publisher = Manchester International Festival|jast = Jansch|first = Lucie}}-/ref> Wilson wrote that he and [[Mikhail Baryshnikov|Baryshnikov]] have discussed creating a play together for years, perhaps based on a Russian text.-ref>{(Cite web|url = http://calperformances.org/learn/program_notes/2014/pn_oldwoman.pdfittle = Cal Performances University of California, Berkeley Playbill[date = 2014|accessdate = 2014-11-23|website = Calperformances|publisher = UC Berkeley|Jast = Wilson|first = Robert|}-/ref> The final production included dance, light, singing and bilingual monologue.



User:Blank123456789 replaces a paragraph with "LLAMAS GROW ON TREES"



Al is important for quality control

Powerful

Fast

Minimizes human effort

When the Levee Breaks: Without Bots, What Happens to Wikipedia's Quality Control Processes? R. Stuart Geiger & Aaron Halfaker. (2013). WikiSym.

• 20+ research papers on Wikipedia damage detection

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- "Machine classification" not part of standard CS degree

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 - Many tool devs don't have a CS degree

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Labor intensive, performance considerations, etc.

Al is hard

Each tool builds uses its own Al







Al is hard

Each tool builds uses its own Al

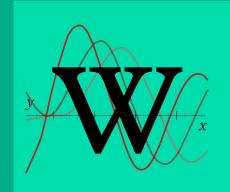






Mostly just English Wikipedia*

Revision Scoring Service





User:EpochFail

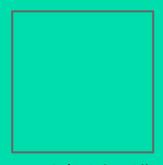




IEG Funded



User:He7d3r



User:とある白い猫

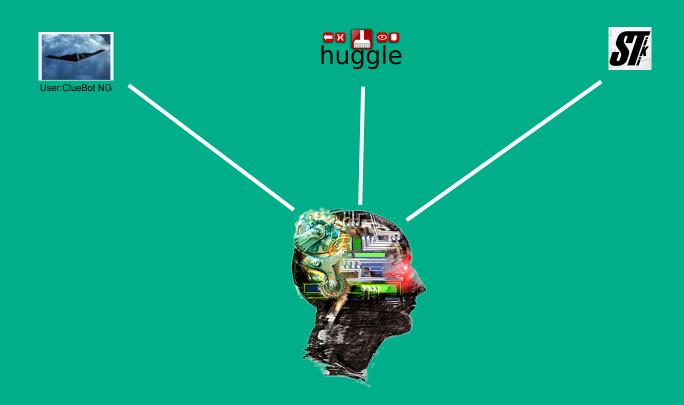
Volunteers

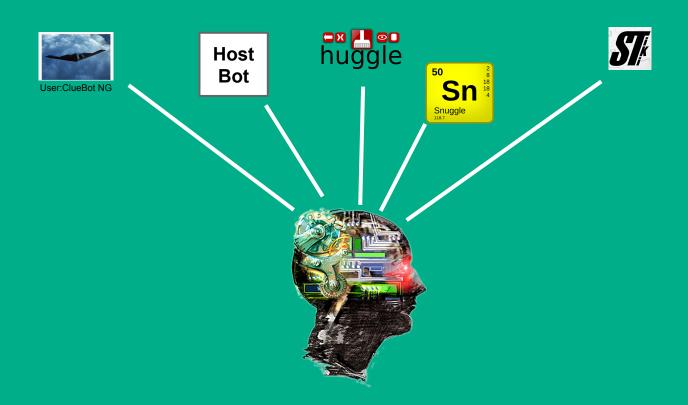
- User:Danilo.mac
- User:Jonas.agx
- User:West.g.andrew
- User:Yuvipanda

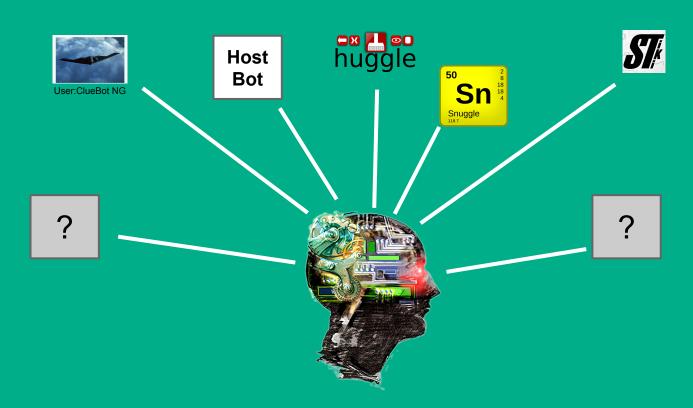












One AI to rule them all

First release

- English
- Portuguese
- Turkish
- Azerbaijani*

^{*} still working out some language feature issues

Web service

- ores.wmflabs.org/enwiki/?
 - scores=damaging&
 - o revids=4567890|3456789

```
{
  "4567890": {
    "damaging": {
        "probability": 0.234
    }
},
  "3456789": {
    "damaging": {
        "probability": 0.952
    }
}
```

Model files

- 100KB 1MB
- Download, load and use

```
> from revscores.scorers import LinearSVCModel
> model_file = open("enwiki.reverts.model", 'rb')
> model = LinearSVCModel.load(model_file)
> model.score(...)
{"probability": 0.723}
```

IEG -- Funding for distributed innovation

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Wikimedia Labs -- Raw materials and shared space

IEG -- Funding for distributed innovation

Wikimedia Labs -- Raw materials and shared space

Services Team -- Professional ecosystem builders



1. Wikipedia needs Al



https://commons.wikimedia.org/wiki/File:Artificial.intelligence.jpg

1. Wikipedia needs Al

2. We're making one important Al easy



<u> https://commons.wikimedia.org/wiki/File:Artificial.intelligence.jpg</u>

1. Wikipedia needs Al

2. We're making one important Al easy

3. Growing the ecosystem of high tech wiki tools



<u> https://commons.wikimedia.org/wiki/File:Artificial.intelligence.jpg</u>

Thanks!

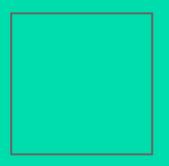
from the Revision Scoring team



User:EpochFail



User:He7d3r



User:とある白い猫



For more info:

- https://meta.wikimedia.org/wiki/Research:Revision scoring as a service
- https://meta.wikimedia.org/wiki/Grants:IEG/Revision scoring as a service