Improving Content Quality with ORES & LiftWing

Objective Revision Evaluation Service Tool & LiftWing

WIKIMANIA SINGAPORE

Joris Darlington Quarshie

What is ORES?

ORES is a machine learning tool that can be used to evaluate the quality of wikipedia content. It can be used to detect vandalism, identify good faith edits and access article quality.

Why use ORES?

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ORES can help editors to;

- Streamline their workflows

- Identify articles that needs that need attention

- Provide guidance to new editors

- Support-community driven initiatives.

Who uses ORES?

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- ORES is used by wikipedia editors, community managers and researchers.
- It is also used by projects that rely on crowdsourced contents such as wikidata and wiktionary.

When was ORES created

When was ORES created?

- ORES was created in 2015 by the Wikimedia Foundation
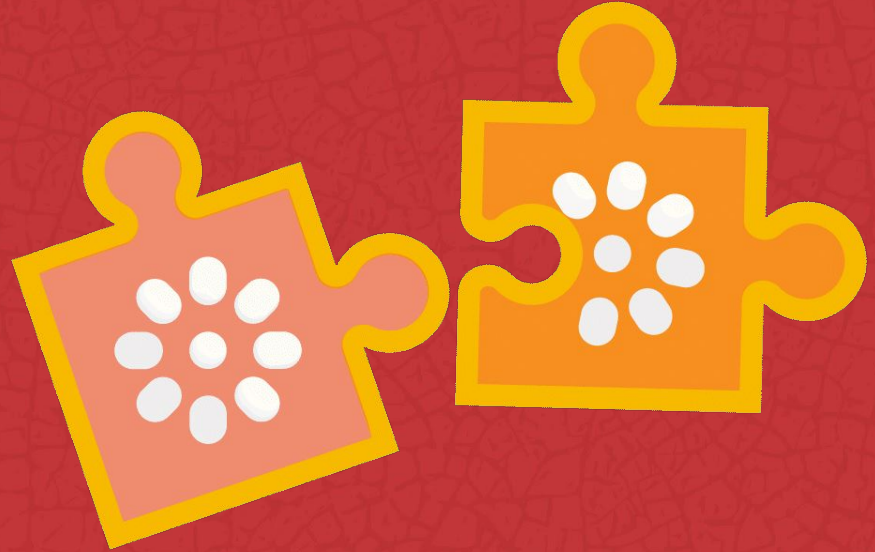- It has been used to improve the quality of millions of wikipedia articles.

Questions & Answers

Model names

Model Names

ORES uses a variety of models to evaluate content, including:

- Vandalism classifier
- Good faith classifier
- Article quality classifier

Accessing ORES

Accessing ORES

- ORES is available to all editors

- it can be accessed through the website or through mediawiki API

Why LiftWing

Why LiftWing?

- LiftWing is a machine learning tool that is designed to improve the accuracy of ORES.

- It is still under development but it has already shown promising results.

Differences between ORES and LiftWing

Differences between ORES and LiftWing

- LiftWing is a generic model hosting platform whiles ORES is a scoring service only for article revisions.
- LiftWing hosts models as microservices whiles ORES acts as a scoring aggregator and can return revisions for many scores and article revisions
- Enable faster deployment
- In ORES a precache is a cache that is updated whenever a new revision is made. Although caching is important aspect of any service, at the moment such functionality is not integrated in LiftWing.
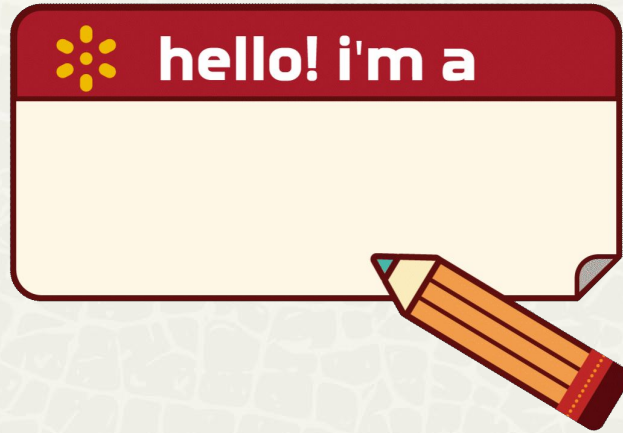
Why the changes from ORES to LiftWing

Why the changes from ORES to LiftWing

- LiftWing is more accurate.
- LiftWing is more scalable.
- LiftWing is more likely to be sustainable in a long term.

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Accuracy

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Accuracy

- In study, LiftWing was able to correctly identify 80% of high quality revisions, while ORES was able to correctly identify 70% high-quality revisions and 80% of low-quality revisions.
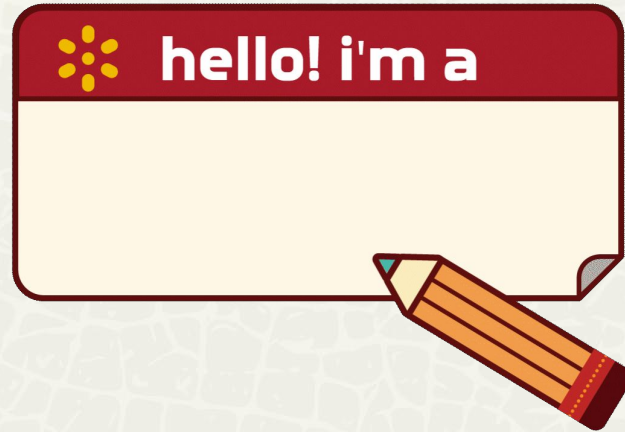
Scalability

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Scalability

- LiftWing can be used to evaluate a large number of revisions than ORES, which is important for WIkipedia as it continues to grow.

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Sustainability

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Sustainability

- ORES is a machine learning model, which means that it constantly needs to be updated with new data in other to remain accurate. This can be a challenge especially as Wikipedia continues to grow and change.

- LiftWing on the other hand, is a human-in-a-loop system. which means that it's less reliant on new data. This makes it more likely to be sustainable in the long term.

Call to Action

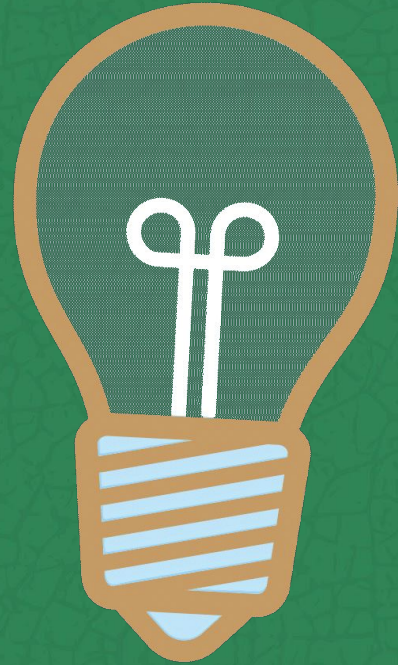# Raising the expectations of Wikipedia Content Quality

Resources

Resources

Resources for the presentation can be found on:

- [ORES website](#)
- [Wikitech (ORES)](#)
- [Wikitech (LiftWing)](#)
- [Special:RecentChanges](#)
- [Huggle](#)

User: Joris Darlington Quarshie
Community Lead
African Wikimedia Technical Community
joris.quarshie@gmail.com