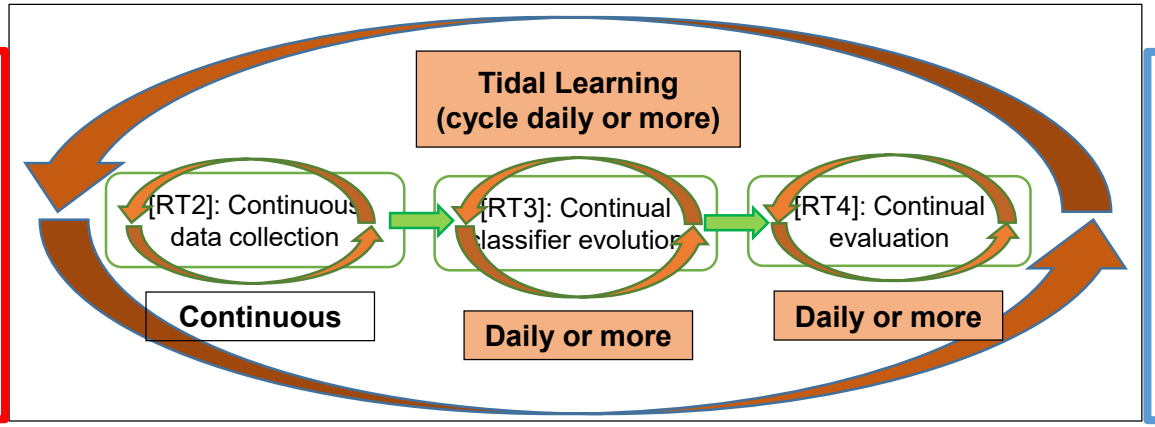
Live Reality: Up-to-Date Information Quality

Challenge: State-of-the-art retrospective studies of past fake news (e.g., 2016 elections) by construction are inapplicable to current fake news (e.g., 2022 elections)



Scientific Impact: First attempt to identify fake news in real-time, in daily cycles as they are newly created, by moving beyond the gold standard of retrospective studies based on manual labeling.

Solution: ***Tidal Learning*** (applied to COVID-19 pandemic)

1. continuous automated training and test data collection (e.g., CDC and Twitter)
2. Continual classifier evolution from collection of live knowledge from authoritative and reputable sources
3. Continual evaluation of teamed classifier on new fake news from social media

Broader Impacts and Broader Participation:

- Software tools for filtering new fake news at the same efficiency and timeliness as email spam.
- Relief and reduction of harm caused by infodemic.
- Sharing of new fake news data and authoritative (training) data in daily cycles as they are created.
- Sharing of live classifiers and their evaluation resultsl
- Sharing of software tools for continuous data collection, classifier training, and evaluation experiments.

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