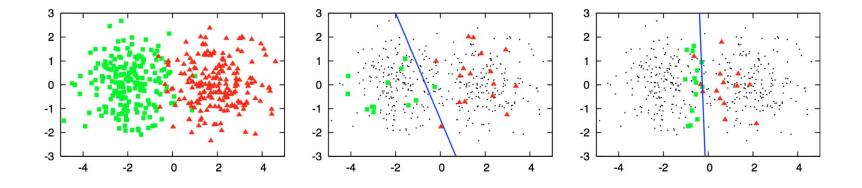
Active learning

Kamil Szmajdziński Damian Szalbierz

Motivation



1. Traditional methods (passive learning) and its

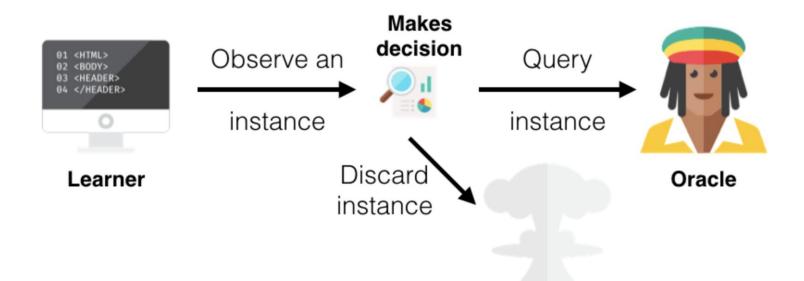
drawbacks 2. Active learning - when it is better approach?

Typical scenarios in active learning

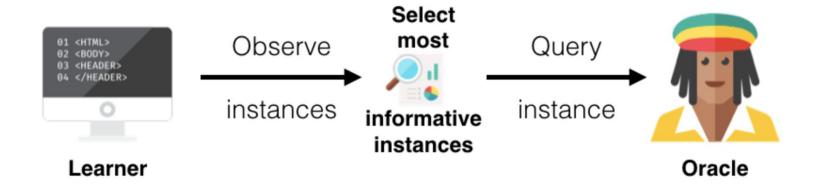
1. Membership query synthesis



2. Stream-based selective sampling



3. Pool-based sampling



Typical scenarios in active learning

Instances	Label A	Label B	Label C
d_1	0.9	0.09	0.01
d_2	0.2	0.5	0.3

- Least confidence d2
- Margin sampling d2
- Entropy sampling d2

Example of Active learning

Active Learning

Applications and modern research into

Thank you for your attention :)

Sources:

https://www.datacamp.com/community/tutorials/active-learning