

PROBLEM:

- Build RTS/SIT Models, that are adaptive/online.

- ↳ fast adaptive tree
- fast auto-encoders

Streaming Data Properties.

- continuous & temp. ordered
- potentially infinite
- can't scan multiple times
- fast arrival - and -abrupt.

- ↳ concept
- ↳ features

- use approx. not exact.

Multi-Class Imbalance Stream

- Noise & anomalies
- mult. classes > 2 . often CVA, CVA
- extreme skewed data/fest
- overlapping classes
- within-class imbalance

Questions

I. Combine undersampling/over ^{without} multiple binary sets.

Methods

SCUT-DS: Window based method

- ↳ Majority classes: cluster-based undersampling - to address class imbalance
- ↳ measuring minority recalls (recognition rates)
- prequential evaluation. feature / concept drift.
- sampling helps learning

How to learn online learning
Albert Belfett
Moa (Wika)
Scikit-learn
multiflow