

AIDEme: An active learning based system for interactive exploration of large datasets Enhui Huang, Luciano Di Palma, Laurent Cetinsoy, Yanlei Diao, Anna Liu

AIDEme is a scalable interactive data exploration system for efficiently learning a user interest pattern over a large dataset

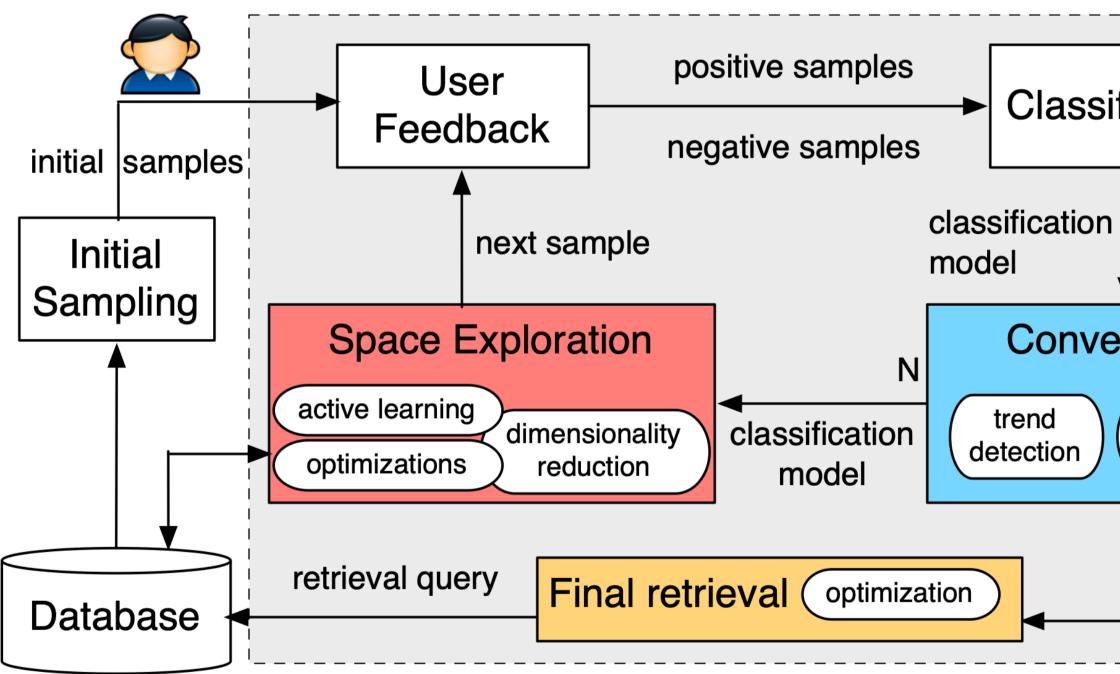


Motivation



- An increasing gap between fast growth of data and limited human ability to comprehend data.
- A growing demand of data analytics tools that can bridge this gap and help the user retrieve high-value content from data more effectively.





- Consider the data content as a set of records, and the user is interested in some of them but not all.
- In each iteration,

-the user labels a record as "interesting" or "not interesting",

- -a classification model is built.
- -active learning techniques are employed to select a new record from the unlabeled data source.
- Construct an increasingly-more-accurate model of the user interest.
- Upon convergence, the model is run through the entire data source to retrieve all relevant records.

