- ➤ Short answer for assessing the knowledge.
- ► Fast and easy method for assisting short answer grading using active learning.
- ► Human in the loop.

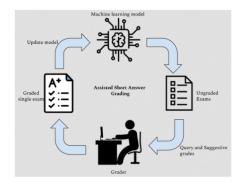


Figure 1: Workflow of active learning in assisted short answer grading $\left[1\right]$



Figure 2: Querying stage of active learning in GUI

- 1. Features used: Features from Sultan et al., 2016 (Length ratio, word alignment score, semantic vector similarity)
- 2. Learning method: Random forests.
- 3. Active learning sampling strategy: Least confident based uncertainty sampling.
- 4. Frameworks: Flask, Vue-js.

Datasets	Clicks with active learning	Clicks without active learning
Neural network	338	680
SemEval 2013	3527	5104
Mohler'11	1386	2352

Table 1: Number of clicks required to grade the answers with and without active learning.

- Saves time.
- Less effort.
- Reaches the performance of supervised learning with less amount of graded answers for training.

Thank you!