Assessment of Question Quality Using Bloom's Taxonomy



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Derive an asymptotic running time complexity of the adjacent algorithm in terms of θ . Assume n is a power of 2. "For the adjacent

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algorithm, considering "Moving a disk" as a basic operation, derive the



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Our Aim

To assess the quality of questions by classifying them according to Bloom's Taxonomy. We want to build a system that can predict the difficulty level of a question to a reasonable degree of accuracy.

asymptotic running time complexity of the algorithm.

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Factual

Conceptual

Procedural

Metacognitive

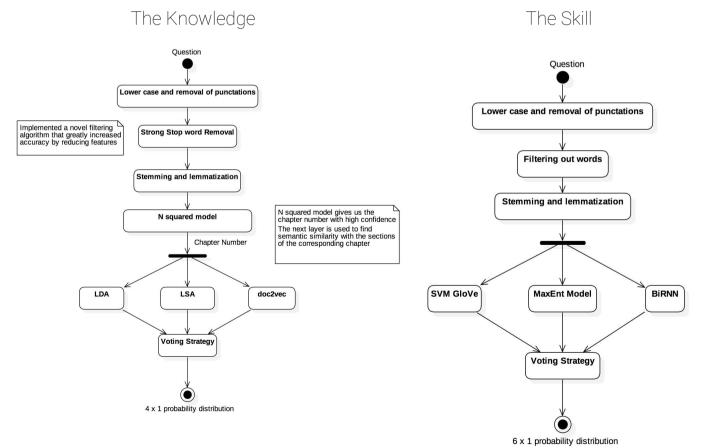
Our Goals

We want our tool to be useful to teachers and students alike. Our tool can be used for

- automating question paper setting
- analysing the study patterns of students
- a pedagogic tool to gauge content delivery

Our **Approach**

We've built two models: one for knowledge classification and the other for skill classification.



Our Results

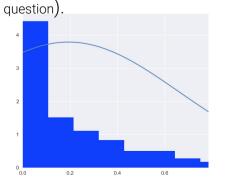
- Achieved 90% accuracy with The Skill
- Achieved 65% accuracy with *The Knowledge*

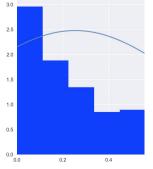
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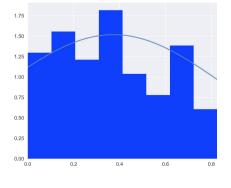
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Can determine question quality with reasonable confidence. This opens the door to a world of opportunities.

We can tell you if a question is tough or easy with our system (harder questions have higher scores. Indeed a procedural guestion is harder than a factual







Factual Knowledge

Conceptual Knowledge

Procedural Knowledge