

# Arabic NLP: Generating Multiple Choice Questions of Saudi Schoolbooks

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## Introduction

**Arabic**, a morphologically rich and complex language, presents unique challenges for **natural language processing (NLP)**. Educational resources, particularly in the context of Saudi schoolbooks, offer a valuable yet untapped domain for the application of NLP techniques.

This project tackles the power of NLP to **automatically generate multiple-choice questions from Arabic texts** in Saudi schoolbooks by employing Large Language models.



## Objectives

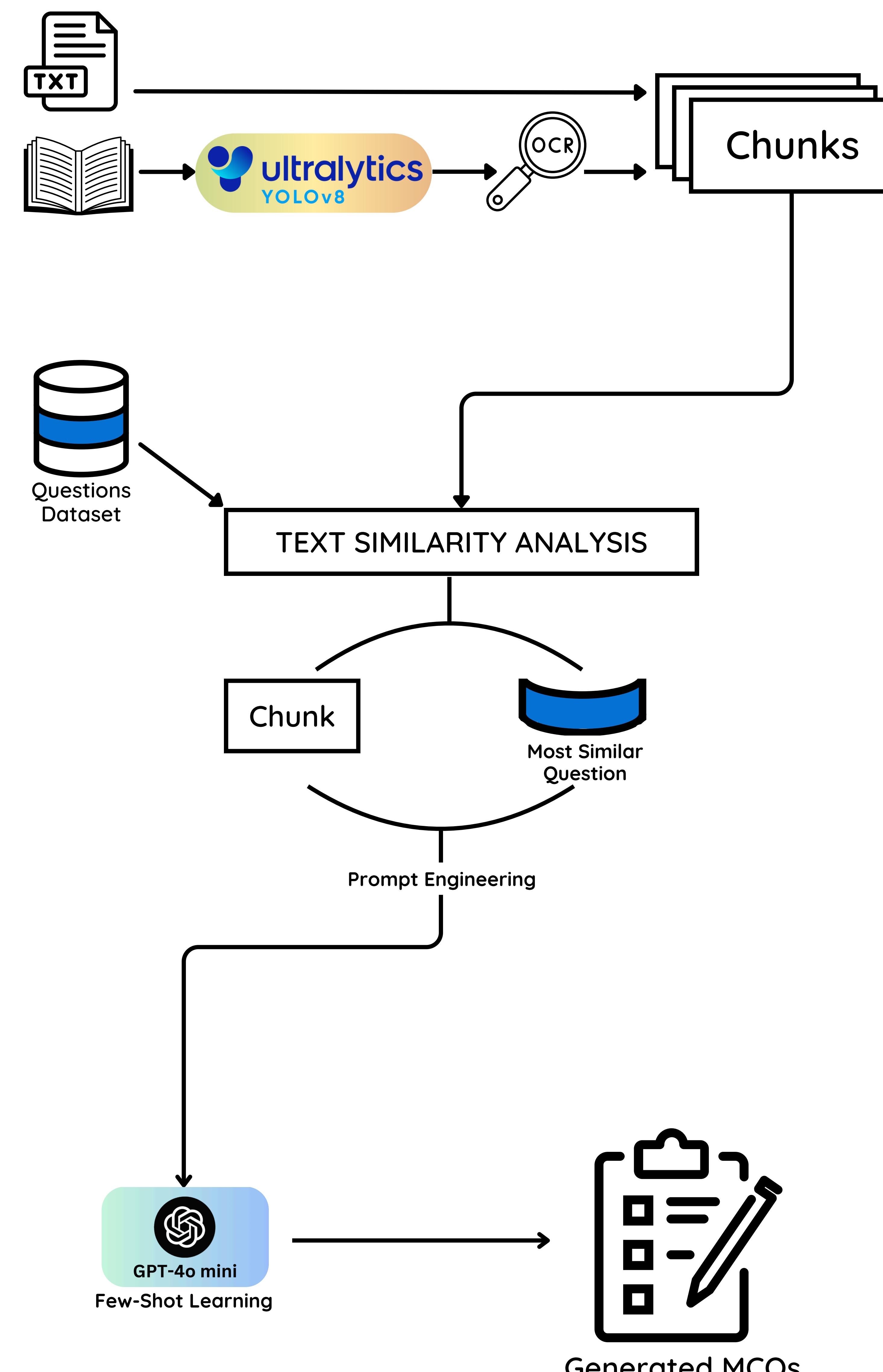
- 🕒 Assisting school teachers by providing support in formulating exams to **reduce their workload**.
- 💻 **Build a repository** of high-quality, AI generated questions for easy access by teachers and students.
- 🧠 Develop an **AI system that adapts** to student performance when generating questions.
- 💡 Contribute to Arabic NLP advancements in support of **Saudi Vision 2030**.



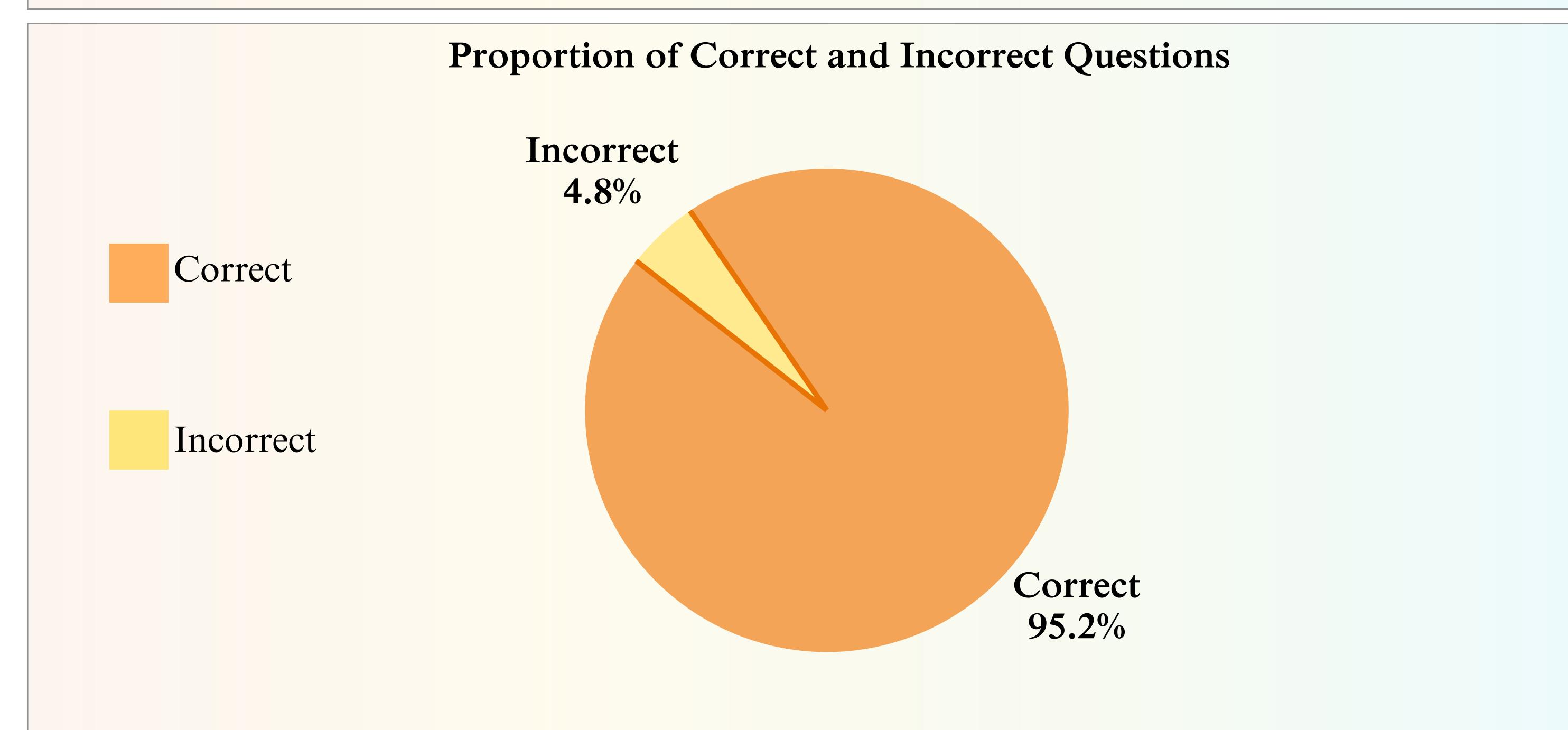
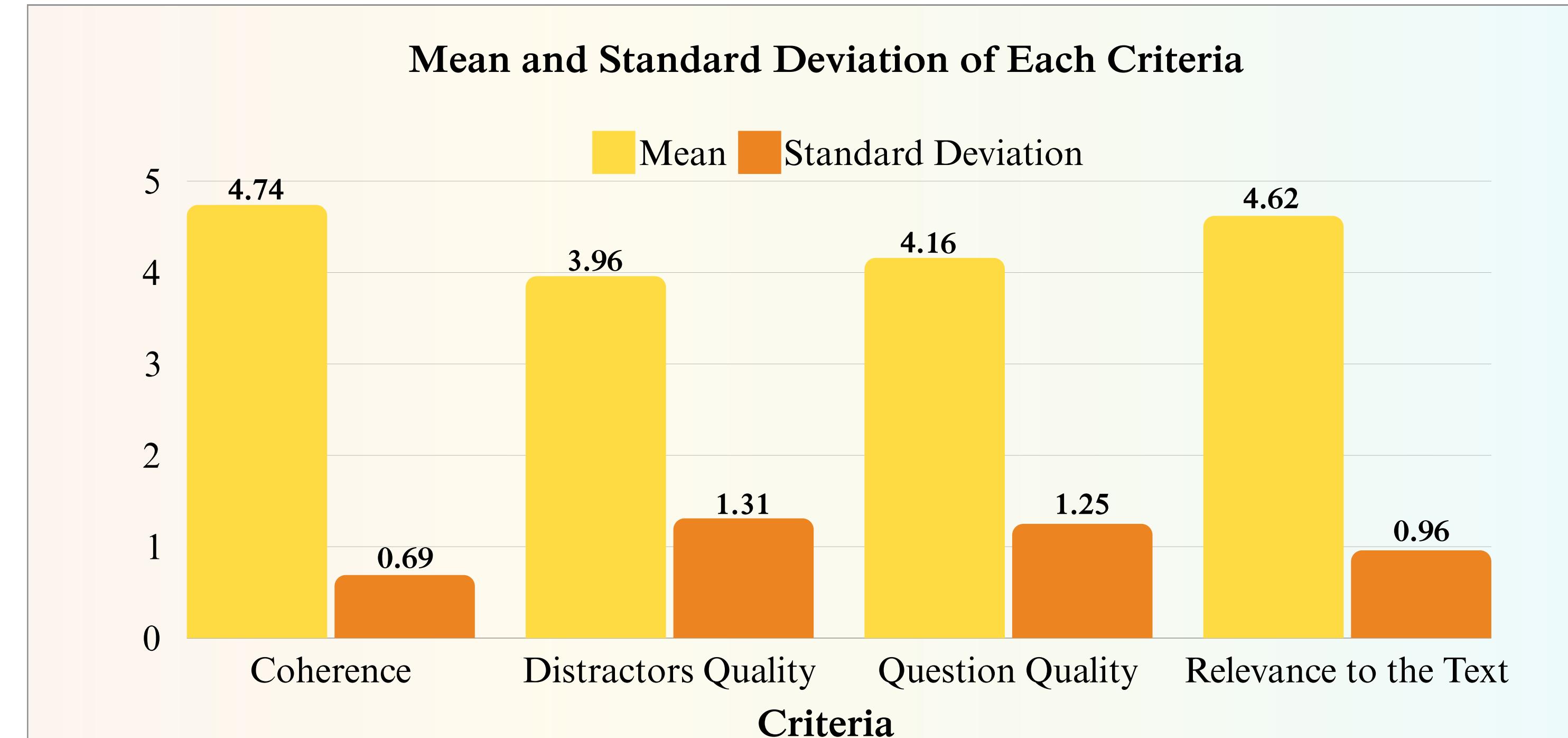
## Challenges

- 1 Limited availability of high-quality Arabic datasets.
- 2 Extracting relevant data from books can be tedious.
- 3 Current models struggle with generating high-quality distractors.

## Methodology

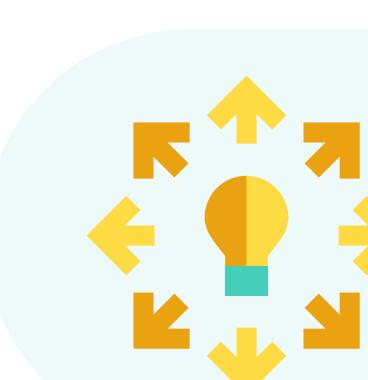


## Results

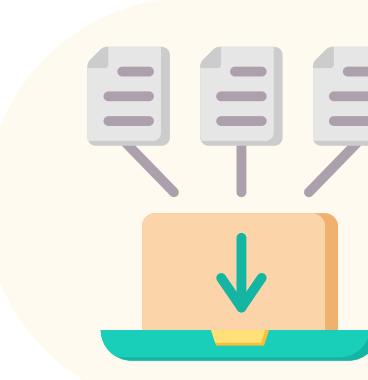


## Future Plans

Generalize the scope of our model to cover the entire Saudi Curriculum.



Building our own comprehensive dataset composed of a variety of Arabic schoolbooks.



Develop an independent, interactive platform for broader accessibility.

