

English conversation practice using generative AI

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1. Background and Objectives

1.1. The Necessity of Global Education

<Definition of Global Talent^[1]>

- (1) Language Skills & Communication Abilities
- (2) Initiative & Proactivity, Spirit of Challenge etc...
- (3) Understanding of Different Cultures and Japanese Identity

○Mastery of English is essential.

1.2. Educational Disparities

A School with a Structured Curriculum

- Specialized curriculum
- High tuition fees

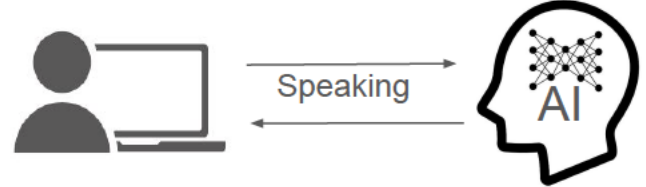


A School with an Unstructured Curriculum

- Normal curriculum
- Low tuition fees

Public schools, in contrast to private institutions, often face challenges in developing curricula for global talent due to limited financial resources.^[2]

1.3. English Learning Methods Using AI



If systems enabling dialogue with AI like ChatGPT can be implemented, schools lacking funds for curriculum development might still successfully cultivate global talent.

OBJECTIVE

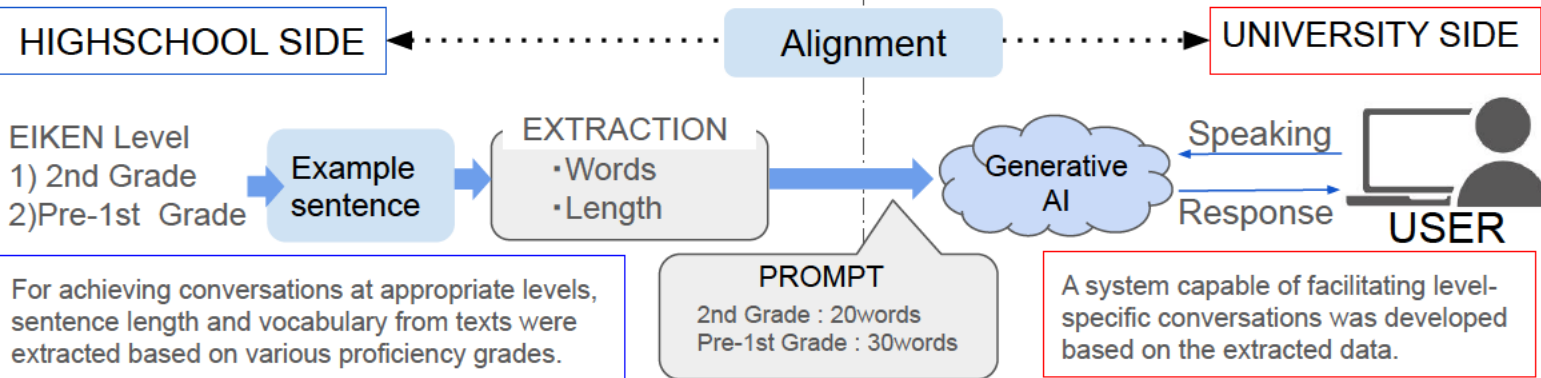
- Anyone can easily learn English and develop the ability to play an active role.

Method...

- 1 : Realization of Level-Based Dialogue Systems with ChatGPT.
- 2 : Evaluation of the Developed System.

2. Experimental Methods

2.1. Extracting features of Eiken sentences

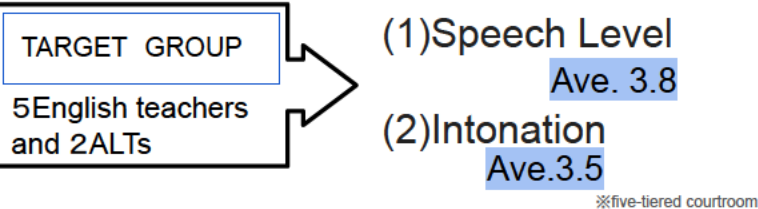


2.2. Dialogue system with generative

3. System Evaluation

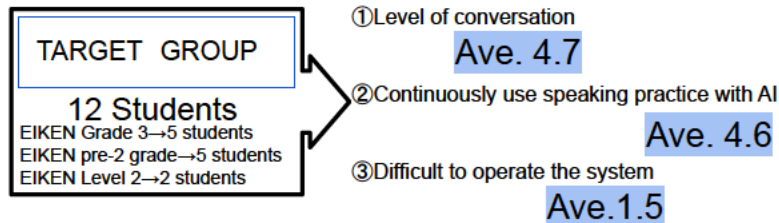
3.1. Professional Evaluation

Teachers were enlisted to evaluate the system's outputs.



3.2. Students Evaluation

Students were enlisted to evaluate the system's outputs.



4. Summary

References

We want to use this generative AI-based English speaking practice system to provide access to quality education in a global society, eliminate the imbalance in learning opportunities caused by economic disparity, and ensure that all students have a fair and equal opportunity to learn.

[1]Ministry of Education, Culture, Sports, Science and Technology (2012) "About the Cultivation of Global Talent" https://www.mext.go.jp/b_menu/shingi/chukyo/chukyo3/047/siryo/_jcsFiles/afiedfile/2012/02/14/1316067_01.pdf

[2]No Children, No Future, <https://contest.japias.jp/tqj25/250162F/ja/menu3-2.html> (Reference Date : 2023/12/12)