



## Social Robot

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The Social Robot is an AI-enabled storytelling robot designed to enhance English language development among children. It provides children with personalized interacting experience powered by AI. It also allows teachers to generate learning materials with the social robot as the delivering agent. The Robot can evaluate language performance and adjust linguistic features based on students' needs.

## Features and Advantages

Automated language learning strategy using storytelling and retelling methods **01**

Performs social skills like facial expressions and gestures for interactive communication **02**

AI-powered backend system generates customized learning content for teachers with story audio, illustrations and comprehension questions **03**

Offers multi-sensory and personalized learning via interactive co-telling and co-creation of stories **04**

Captures verbal and physical instructions to provide scaffolded assistance and feedback for improvement in story re(telling) **05**

## Future Applications

- Develop emotion recognition that enables the Robot to respond empathetically to children's emotions, creating a more personalized and interactive learning experience
- Address SEN students' needs like slower pace in speaking, enlarging words on screen, ensuring a tailored and effective learning experience
- Alleviate the workload of teachers by offering pre-prepared learning materials and facilitating engaging learning activities
- Collaborate with kindergartens and primary schools to integrate the Social Robot to support English language development



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