

Artificial Voice Intelligence in Memory Retention; Does A.I. Anthropomorphism Impact Auditory Memory Recall?

Doad, Naman (School: Oviedo High School)

The integration of A.I. into homes, workplaces and transportation has increased with the development of new technology. Voice-activation and interaction is required to use and perceive these technologies. Research on how this technology affects us psychologically is limited within the commonplace society; educational settings are the only ones extensively studied. Overall, there is a lack of data discerning the usefulness of realism in voice A.I. Common A.I. with voice-generated audios were categorized by anthropomorphism on a human-computer scale and then listened via audio sample by participants. Three samples were used to determine if their memory and perception of a topic was changed by the voice they were given it by. Audios were labelled "mechanized," "unrefined," and "highly-realistic". They continued on to answer simple recall questions based on those samples and retook the survey examination a day after their first try without listening to the samples again. Data received is expected to favor the highly-realistic audio significantly, with drops between the unrefined and mechanized recall questions correct answers. This study offers privatization of user comfort and functionality; the research can be contributed to the advancement of lifestyle A.I. in the future and betterment of future products for the marketplace and homes.

Awards Won:

