

MICROSOFT GENERATIVE AI HACKATHON

VIRTUAL GERONTOLOGIST

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CONTENTS

- ❑ BACKGROUND
- ❑ ABOUT
- ❑ USE CASES
- ❑ RESPONSIBLE AI
- ❑ ROAD AHEAD
- ❑ CONCLUSION

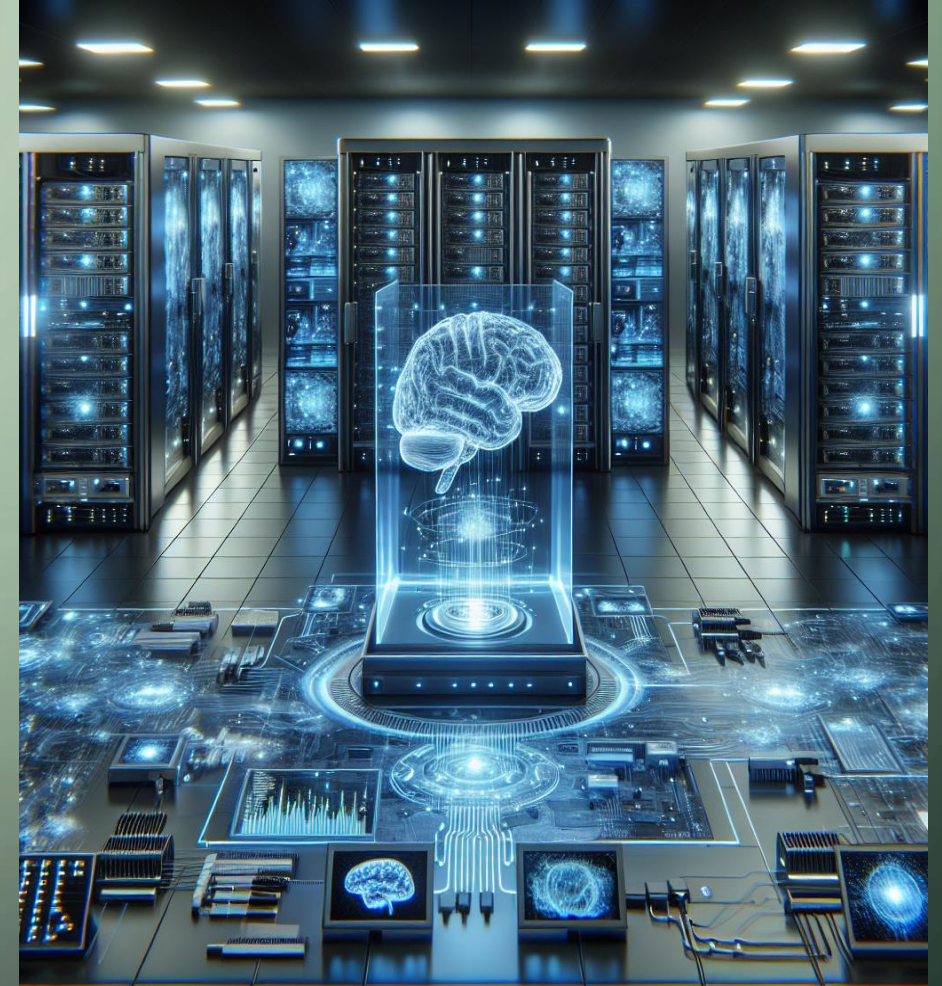
BACKGROUND

- According to the World Health Organization [WHO], "People worldwide are living longer. By 2030, 1 in 6 people in the world will be aged 60 years or over." As life expectancy increases, so does our awareness of its outcome and the social, economic, and physical challenges of aging.
- I am volunteering as a care deacon at church, where I visit and spend time with senior citizens in their houses or senior living facilities. During these interactions, I have realized the importance of companionship as well as the effect of technology on their lives.
- Artificial Intelligence can play a significant role in improving our personal and professional lives.



ABOUT

- Generative AI presents immense opportunities for innovation. ‘Virtual Gerontologist’ is a Generative AI app built using Microsoft Azure AI Services, with a focus on senior citizens.
- The main idea behind this solution is to enhance the life of elders in our community with the help of Artificial Intelligence and Cloud technologies..
- The app uses Azure OpenAI Service, Speech Service, Computer Vision, and Dalle-3 services to generate a Multimodal solution.



USE CASES



Text
Generation



Image
Generation



Text to Audio
Conversion



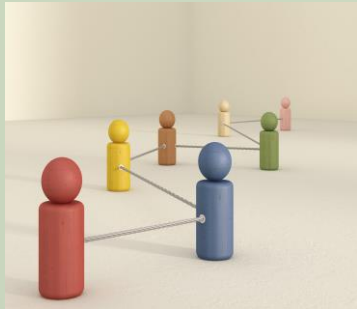
Audio to Text
Conversion



Image
Recognition

RESPONSIBLE AI

- Misuse of AI technologies can result in unintended or unforeseen consequences; hence it is important to develop technology responsibly.
- Following are some of the Responsible AI policies incorporated in the 'Virtual Gerontologist' app.



**Be considerate
about who the
systems are for**



**Be accessible to
everyone**



**Be built and
tested for
safety**



**Be accountable
to people**

ROAD AHEAD

- The 'Virtual Gerontologist' Gen AI app can be enhanced to include more senior-friendly capabilities.
- Some of the use cases identified are given below:
 - Integrate Azure Communication Services to include a phone call feature, in case of emergencies
 - Include email capability to the app using Email Communication Services
 - Groups & Forums to enable the elders to connect with peer groups based on their interests



CONCLUSION

- ‘Virtual Gerontologist’ is a Generative AI solution built using the Microsoft Azure AI services. The main idea behind this solution is to enhance the lives of elders in our community with the help of Artificial Intelligence and Cloud technologies.
- The app is intended to be a virtual companion for senior citizens. It is easy to use and acts as a single source of access to various capabilities.
- Hope this baby step of the Gen AI solution is useful and helps to achieve more capabilities in the future.



