DotChat

etap-4

Repozytorium: github

```
:----------------------------------------------------------:
             D O T   C H A T   gpt-4
:----------------------------------------------------------:
 Here are some usefull commands:
 \user <username> - to register your username
 \system <text> - to provide context for the AI assistant
 \save <filename> - to save your chat history in a file
 \clear - to clear the chat history
 \exit - for leaving the chat

 \vision [options] - predicts weather from given image with Azure Custom Vision
 \vision img "<path to img>"
 \vision url "<url with img>"

 \summarize [options] - creates summaries of pdf files with OpenAI
 \summarize pdf "<in filename>" to "<out filename>"
 \summarize dir "<source path>" to "dest path>"
 \summarize ... -v|--verbose - outputs summary to screen

 \receipt [options] - extract data from receipt image using Azure Custom
 Document Intelligence
 \receipt jpg "<in filename>" to json "<out filename>"
 \receipt ... -v|--verbose - outputs data to the screen

 \dall-e [options] - prompts for image description and generates image(s)
 \dall-e img "<dest folder>" - images will be saved to disc
 \dall-e url - image urls will be printed to console

 \speech <filename> - [in the making...]
 \youtube - [int the making...]

 ...
```
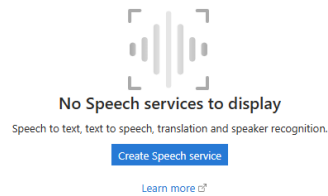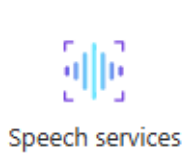
1. Custom Speech

W module korzystającym z Custom Speech celem będzie wykonanie

a. Założenie zasobu Speech services

Potwierdzenie parametrów ->   **Ekran utworzonego zasobu ->**   **Odnalezienie kluczy API**

b. Dodanie klucza api i endpointu do pliku konfiguracji

```
// appsettings.json
// ...
  "AzureCustomSpeech":{
    "Endpoint": "<Endpoint>",
    "ApiKey": "<KEY 1>",
    "Region": "westeurope"
  }
}
```

b. Dodanie zależności Cognitive Speech SDK

```
dotnet add package Microsoft.CognitiveServices.Speech
```

d. Projekt Custom Speech

Przydatne zasoby: custom speech overview, pricing

- Przejście do `Speech studio`, następnie do `AI Studio`, wybranie `Use services`

Try out all use cases and see other custom tools for building Speech AI models

Go to Speech Studio

← **Azure-AI-Speech**

⊞ Use Service   ⚗ Fine-tune

Try it out   Details   **API Code**

Documentations

Scenarios **(Common used cases)**	**Speech to text** **(Speech recognition)**	**Text to speech** **(Voice)**
Video translation ⬈	Real-time speech to text ⬈	Voice gallery ⬈
	Fast speech to text ⬈	Personal voice ⬈
	Batch speech to text ⬈	Text to speech avatar ⬈
	Custom speech ⬈	
	Speech translation ⬈	

- Stworzenie projektu (Create new project)

Select a resource to view an API key and endpoints

Azure-AI-Speech standard deployments are available as public endpoints with no hosting fees; you are only charged for usage; you only pay for usage if you do not customize or fine-tune them.

Project * ⓘ   Create a new project

There are no existing projects. Please create a new project.   ⌄

Connected resources *

Select a connection   ⌄

Create a project

Projects are easy-to-manage containers for your work—and the key to collaboration, organization, and connecting data and other services.

Project name * ⓘ

> DotChat-CustomSpeech

> ❯   Azure resources to be created (new: 01133369-6190_ai + 4)   **Customize** ←

ⓘ   Do you need to customize the security or storage resources? Go to Azure Portal ⧉

- Konfiguracja projektu

Create a project

✅ Project details

2️⃣ Create a hub

3️⃣ Review and finish

Create a hub for your projects
A hub is the collaboration environment for your team to share your project work, model endpoints, compute, connections, and security settings. Learn more ⧉

Do you need to customize security or the dependent resources ⧉ of your hub? Go to Azure Portal ⧉

Hub name *

> DotChat-Speech

Subscription * ⓘ   Create new subscription ⧉

> Azure for Students   ⌄

Resource group * ⓘ   Create new resource group

> PUCH-ChatGroup   ⌄

Location * ⓘ

> West Europe   ⌄

Help me choose

Connect Azure AI Services or Azure OpenAI * ⓘ   Create new AI Services

> (new) ai-DotChat-Speech   ⌄

Connect Azure AI Search ⓘ   Create new AI Search

> Skip connecting   ⌄

Create a project

- ✅ Project details
- ✅ Create a hub
- ③ Review and finish

Review and finish

The following resources will be created for you, along with required dependencies. The creation of the first hub and project may take a few minutes to complete. Learn more about hubs and dependencies ↗.

Hub
Name: DotChat-Speech
Subscription: Azure for Students
Resource group: PUCH-ChatGroup
Location: westeurope

Project
Name: DotChat-CustomSpeech
Subscription: Azure for Students
Resource group: PUCH-ChatGroup

AI Services
Name: ai-DotChat-Speech

Create a project

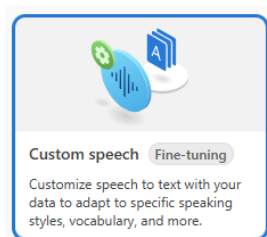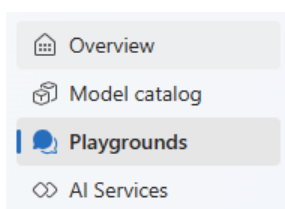- ✅ Project details
- ✅ Create a hub
- ③ Review and finish

Review and finish

The following resources will be created for you, along with required dependencies. The creation of the first hub and project may take a few minutes to complete. Learn more about hubs and dependencies ↗.

Resource	Type
🕐 DotChat-CustomSpeech	AI project ⓘ
🕐 DotChat-Speech	AI hub ⓘ
🕐 ai-DotChat-Speech	AI Services ⓘ
◯ stdotchatspe868646296235	Storage account ⓘ
🕐 kv-dotchats	Key vault ⓘ

e. Przygotowanie `Custom speech`

- Przejście do `Playgrounds`, wybranie `Custom speech` i `Fine-tune seech`

Overview
Model catalog
Playgrounds
AI Services

Custom speech [Fine-tuning]
Customize speech to text with your data to adapt to specific speaking styles, vocabulary, and more.

Enhance speech recognition for your target scenario

Fine-tune Azure speech to text models with your domain-specific vocabulary data, pronunciation data, or audio samples recorded in your target acoustic environment.

Fine-tune Speech

f. Utworzenie serwisu `Custom speech`

Create service fine-tuning

1 Select task type

2 Basic information

How would you like to fine-tune Azure AI Services?

Speech to text (speech recognition)
Enhance recognition of domain-specific vocabulary, adapt your users' speaking style and/or acoustic environment.

Text to speech (Voice creation) `Coming soon...`
Create a unique voice for your brand and infuse emotion into spoken content with varied styles.

Translation `Coming soon...`
Customize Microsoft's neural translation to better suit your business's specific terminology and style, enhancing translation quality.

Create service fine-tuning

✓ Select task type

2 Basic information

Select connected service, language and name

Connected service *

ai-dotchatspeech868646296235

Language *

English (United Kingdom)

Name *

WikiSpeech

Description

Fine tuning on spoken wikipedia articles.

g. Przygotowanie danych treningowych

Źródło: voice datasets > spoken Wikipedia Corpora

h.

2. Transkrypcja filmu z YouTube z tłumaczeniem