



Personal Education Counsellor

GROUP 02-SECTION 004

- JOEL SOLOMAN RAJ ADDALA
- JERUSHA SHEBA MABEN
- MANUSHREE VENKATESH
- RAM SUNDAR THANUMALAYA PERUMAL

INTRODUCTION

- This chatbot was created with international students in mind. It will serve as an individual education advisor, using artificial intelligence to assess each student's qualifications and areas of interest.
- According to the students' interests and preferences, it will recommend educational institutions and programs. By giving them recommendations that are based on their unique preferences, this will make it easier for students to make decisions.
- This chatbot's biggest feature is that it saves time compared to searching through multiple websites.

WHY AI?

24/7 Availability: Chatbots can provide round-the-clock customer support, ensuring that users can access assistance at any time, regardless of the time zone or location. This allows businesses to provide seamless support to their customers, even outside of regular business hours.

Scalability: AI-powered chatbots can handle multiple conversations simultaneously. Chatbots can handle large volumes of inquiries and provide consistent responses, ensuring a high level of service without any additional manpower.

Efficiency: Chatbots can digest information rapidly and accurately and respond in real-time, resulting in quicker and more effective interactions with users.

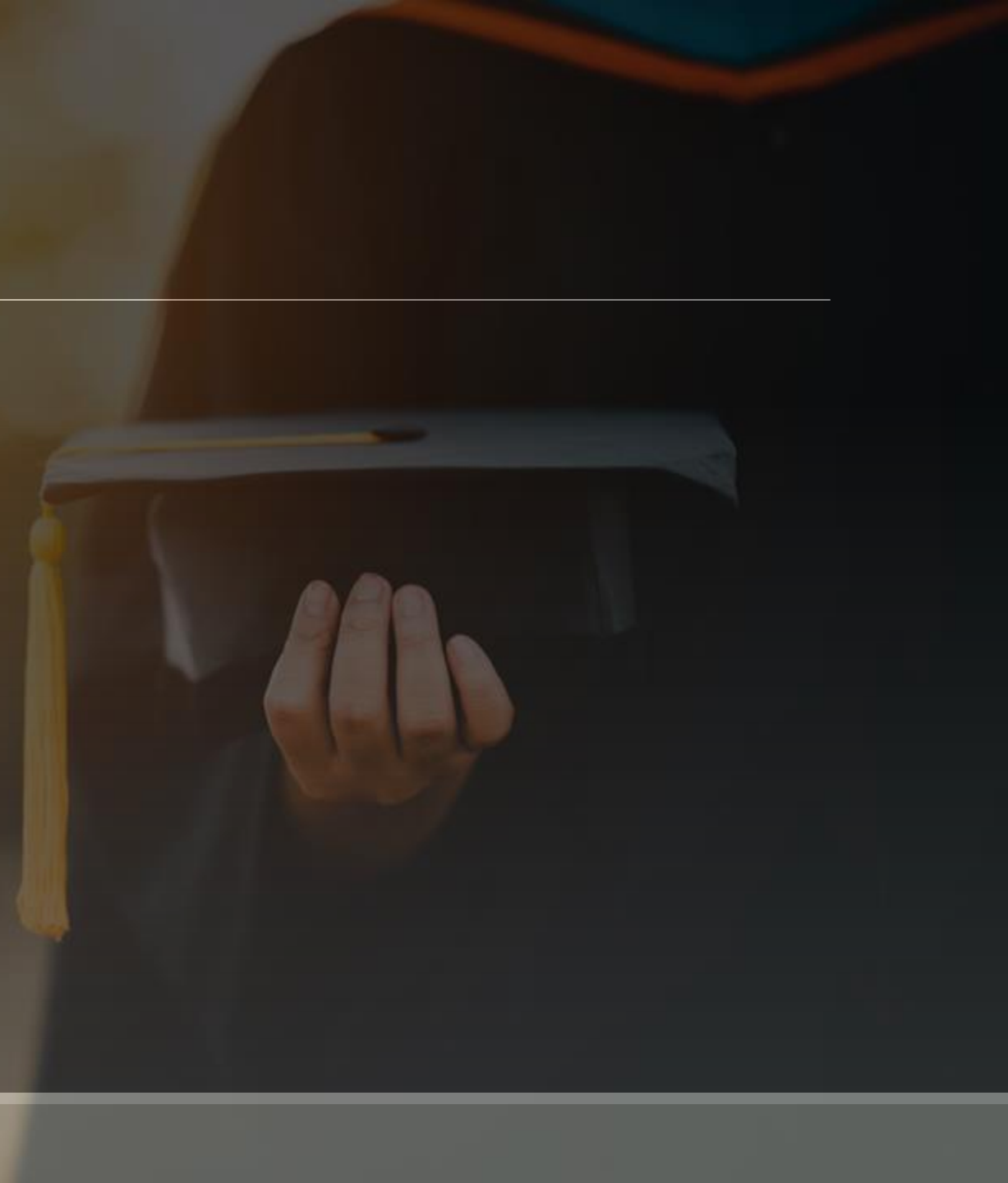
CHALLENGES

- Selecting Right questions to answer.
- Mapping of questions to appropriate answer.
- Following through a clean pipeline.



TARGET TASKS

- Program and University Recommendations
- Visa and Immigration Information
- Qualification Exam Information
- FAQ and Support



A dark, artistic background featuring a camera aperture with a lens flare effect. The aperture is centered, showing a black circular opening surrounded by curved blades. A bright light source creates a multi-colored lens flare (green, blue, yellow) that streaks across the upper right portion of the frame. The overall tone is dark and moody.

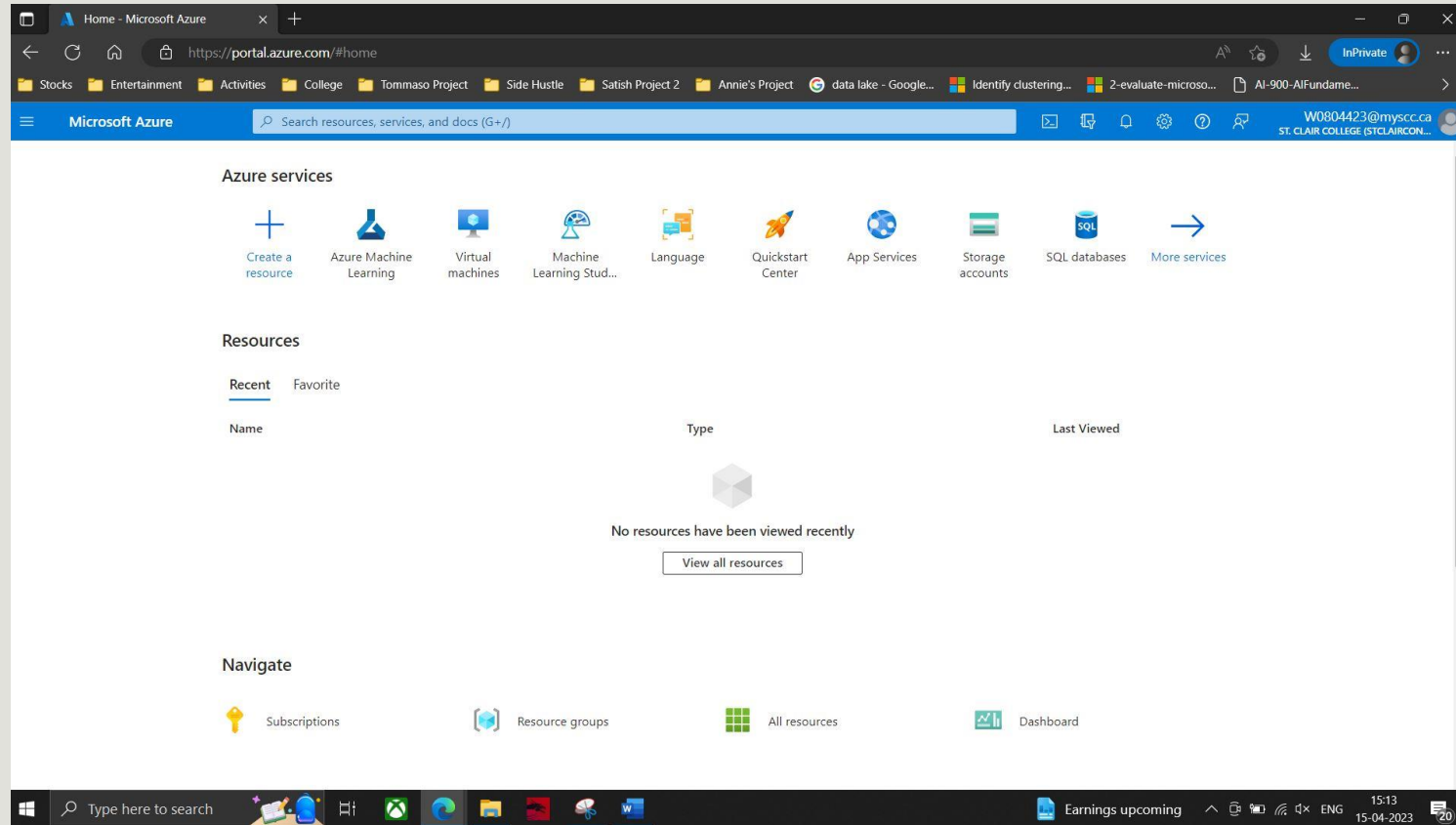
DEMO

[HTTPS://RAMS-REPO.GITHUB.IO/DAB106_GROUP2_PEC/](https://RAMS-REPO.GITHUB.IO/DAB106_GROUP2_PEC/)

FURTHER IMPROVEMENT

- More Questions can be included to make the bot much more interactive.
- Pipeline can be cleaned to ensure there isn't any mismatch between questions and answers.
- Selecting broader topics to make the bot convey more information.

Microsoft Azure Home



Create new Language Service

Language service - Microsoft Azure

https://portal.azure.com/#view/Microsoft_Azure_Marketplace/GalleryItemDetailsBladeNopdl/id/Microsoft.CognitiveServicesTextAnalytics/selectionMode~/false/resourceGr...

Microsoft Azure

Search resources, services, and docs (G+)

W0804423@myscc.ca
ST. CLAIR COLLEGE (STCLAIRCON...)

Home > Create a resource > Marketplace >

Language service

Microsoft

Language service [Add to Favorites](#)

Microsoft | Azure Service

★ 5.0 (1 ratings)

Plan

Language service [Create](#)

Overview Plans Usage Information + Support Ratings + Reviews

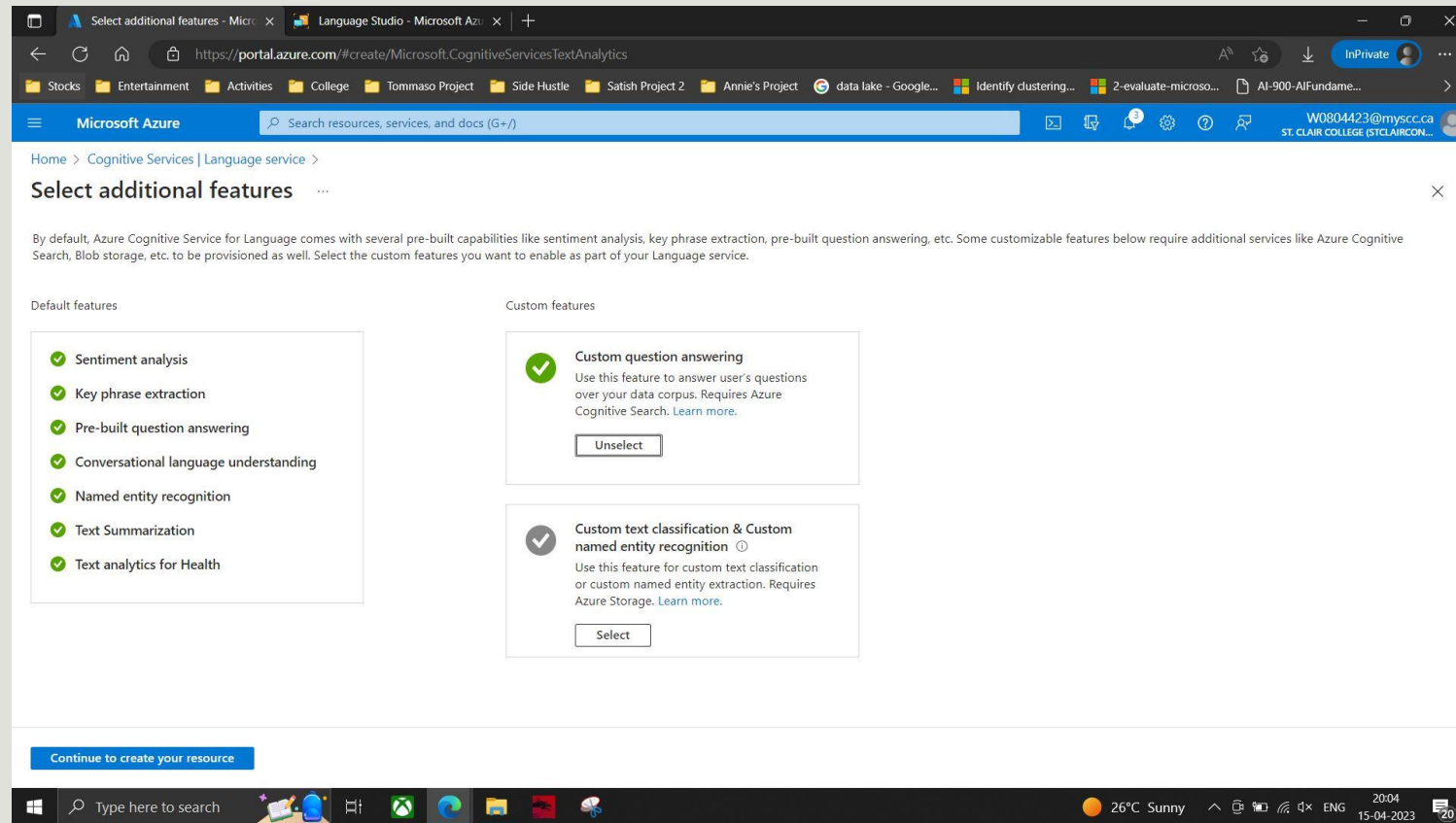
Azure Cognitive Service for Language enables you to build apps with industry-leading natural language understanding capabilities without machine learning expertise. It consolidates familiar capabilities previously available in Language, QnA Maker, and Language Understanding (LUIS) into a unified service. With a single API call, harness decades of Microsoft's state-of-the-art research and ground-breaking NLU capabilities.

More products from Microsoft [See All](#)

 Active Directory Health Check Microsoft Azure Service Assess the risk and health of Active Directory environments.	 AD Replication Status Microsoft Azure Service Identify Active Directory replication issues in your environment.	 Device Update for IoT Hub Microsoft Azure Service Securely and Reliably update your devices with Device Update for IoT Hub.	 Front Door and CDN profiles Microsoft Azure Service Azure Front Door and CDN profiles is security led, modern cloud CDN that provides static and dynamic content.
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Market Brief 15:15 15-04-2023 20

Creating the Language service – Part 01



Creating the Language service – Part 02

The screenshot shows the Microsoft Azure portal interface for creating a new Language service. The browser tabs at the top include 'Create Language - Microsoft Azure', 'Language Studio - Microsoft Azure', and 'New InPrivate tab'. The address bar shows the URL: https://portal.azure.com/#view/Microsoft_Azure_ProjectOxford/TextAnalyticsCreate_Dx/searchEnabled~/true/storageEnabled~/false/dxParameters~//%7B%22searchEnabled%3Atrue%22%2C%22storageEnabled%3Afalse%22%2C%22dxParameters%3A%7B%22searchEnabled%3Atrue%22%2C%22storageEnabled%3Afalse%22%7D%7D. The user is logged in as 'W0804423@mycc.ca' with the role 'ST CLARK COLLEGE (STCLARK)'. The breadcrumb navigation is 'Home > Cognitive Services > Language service > Select additional features > Create Language'.

Create Language

Subscription: [Microsoft Azure](#)

Resource group: [PEC-Group2-Chatbot](#) [Create new](#)

Instance Details

Region: [East US](#)

Name: [PEC-LanguageService](#)

Pricing tier: [S \(1K Calls per minute\)](#)

[View full pricing details](#)

Custom question answering

Custom question answering lets you answer user's questions over your data corpus. You can extract questions and answers from your data, customize them and create a knowledge base. The knowledge base is stored in an Azure Cognitive Search index in your own subscription. [Learn more](#)

Azure search region: [East US](#)

Azure search pricing tier: [Free F \(3 indexes\)](#)

[View full Azure search pricing details](#)

Responsible AI Notice

Microsoft provides technical documentation regarding the appropriate operation applicable to this Cognitive Service that is made available by Microsoft. Customer acknowledges and agrees that they have reviewed this documentation and will use this service in accordance with it.

[Responsible Use of AI documentation for Text Analytics for Health](#)

[Responsible Use of AI documentation for PII](#)

[Responsible Use of AI documentation for Language](#)

By checking this box I certify that I have reviewed and acknowledge the terms in the Responsible AI Notice. ☒

[Review & create](#) [< Previous](#) [Next: Network >](#)

[Give feedback](#)

The Windows taskbar at the bottom shows the system clock as 20:10 on 15-04-2023, with weather information for 26°C Sunny.

Language Service Deployment

TextAnalyticsCreate-20230415200901 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: TextAnalyticsCreate-20230415200901
Subscription: Azure for Students
Resource group: PEC-Grou2-Chatbot

Start time: 4/15/2023, 8:10:48 PM
Correlation ID: fa36d251-6852-497a-90d9-2057c6da998f

Deployment details

Resource	Type	Status	Operation details
PEC-LanguageService	Microsoft.CognitiveServices/accou...	Created	Operation details
peclanguageservice-asfxxi4ombah6i	Microsoft.Search/searchServices	Created	Operation details

Microsoft Defender for Cloud
Secure your apps and infrastructure
[Go to Microsoft Defender for Cloud >](#)

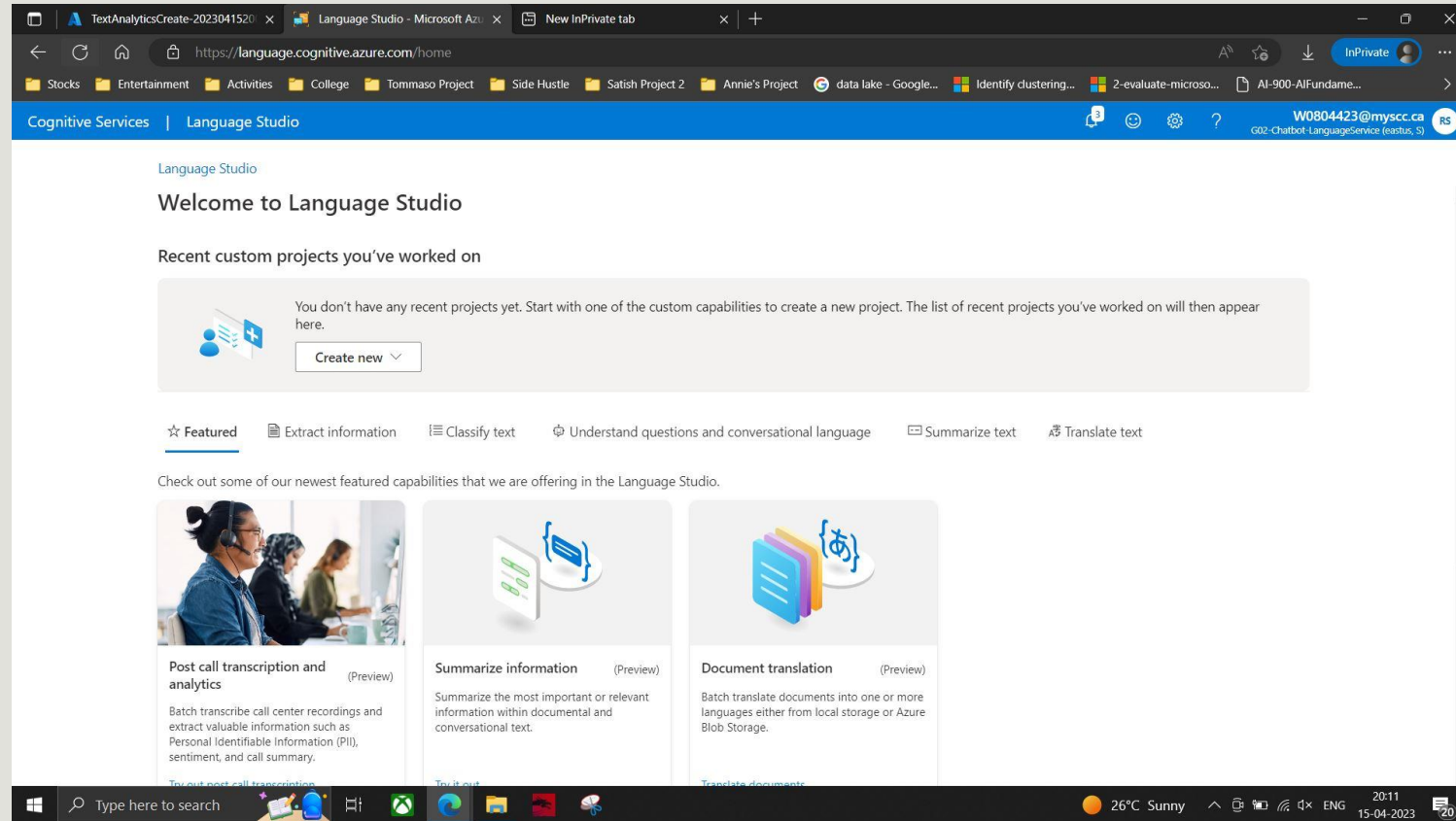
Free Microsoft tutorials
[Start learning today >](#)

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
[Find an Azure expert >](#)

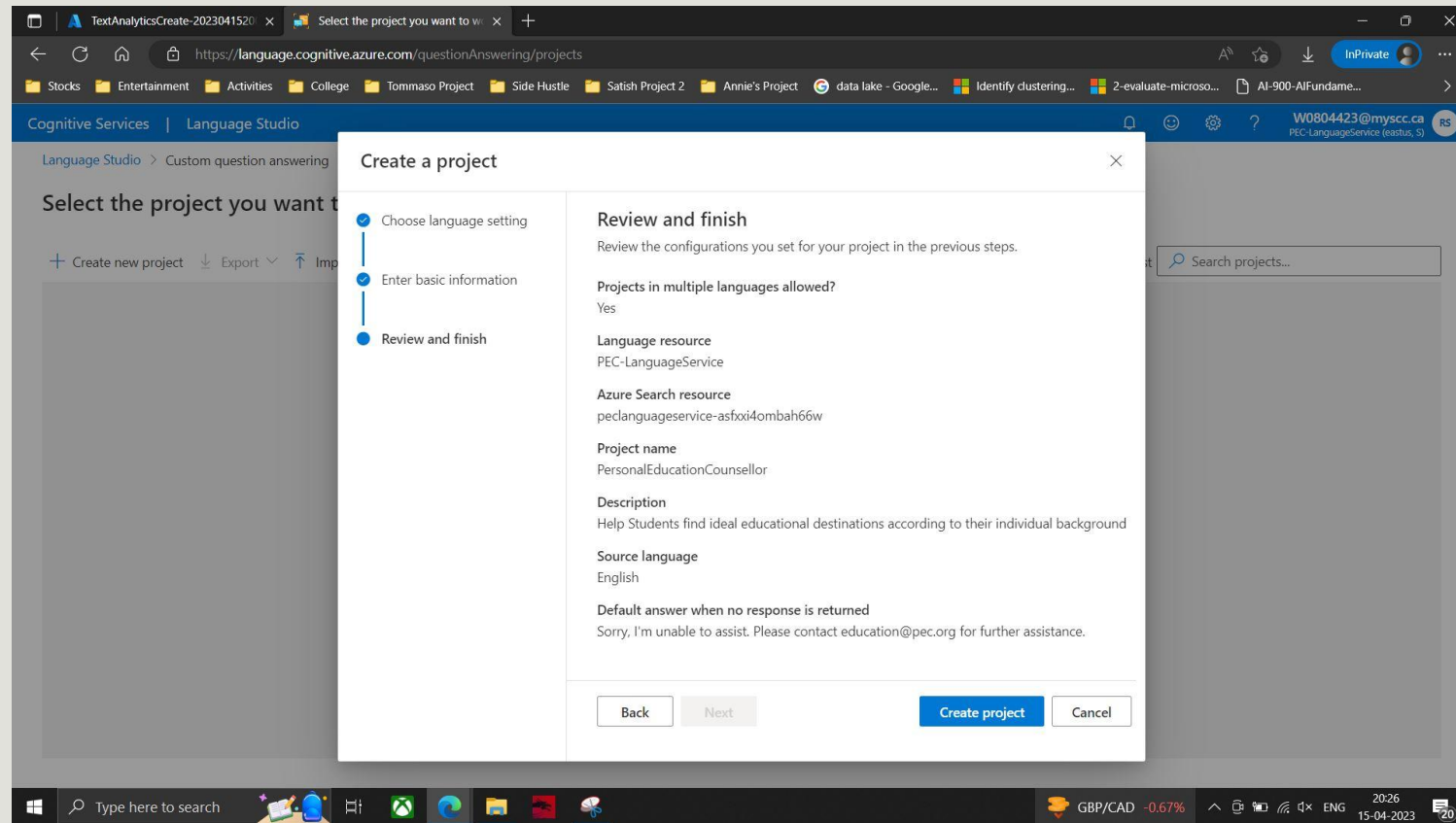
Type here to search

26°C Sunny 20:11 15-04-2023

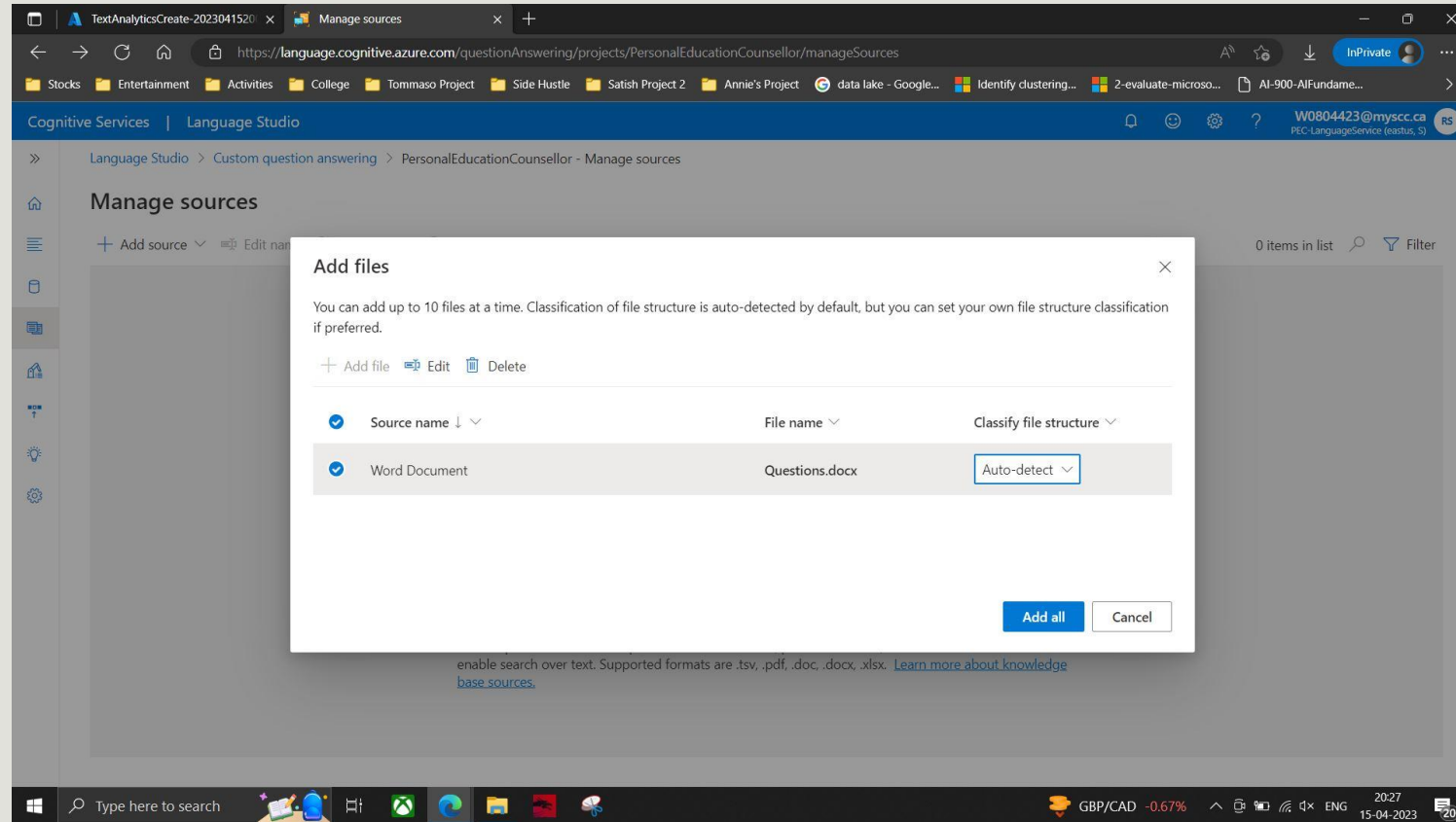
Creating new Project in Language Studio



Project Details



Uploading a Source for QnA



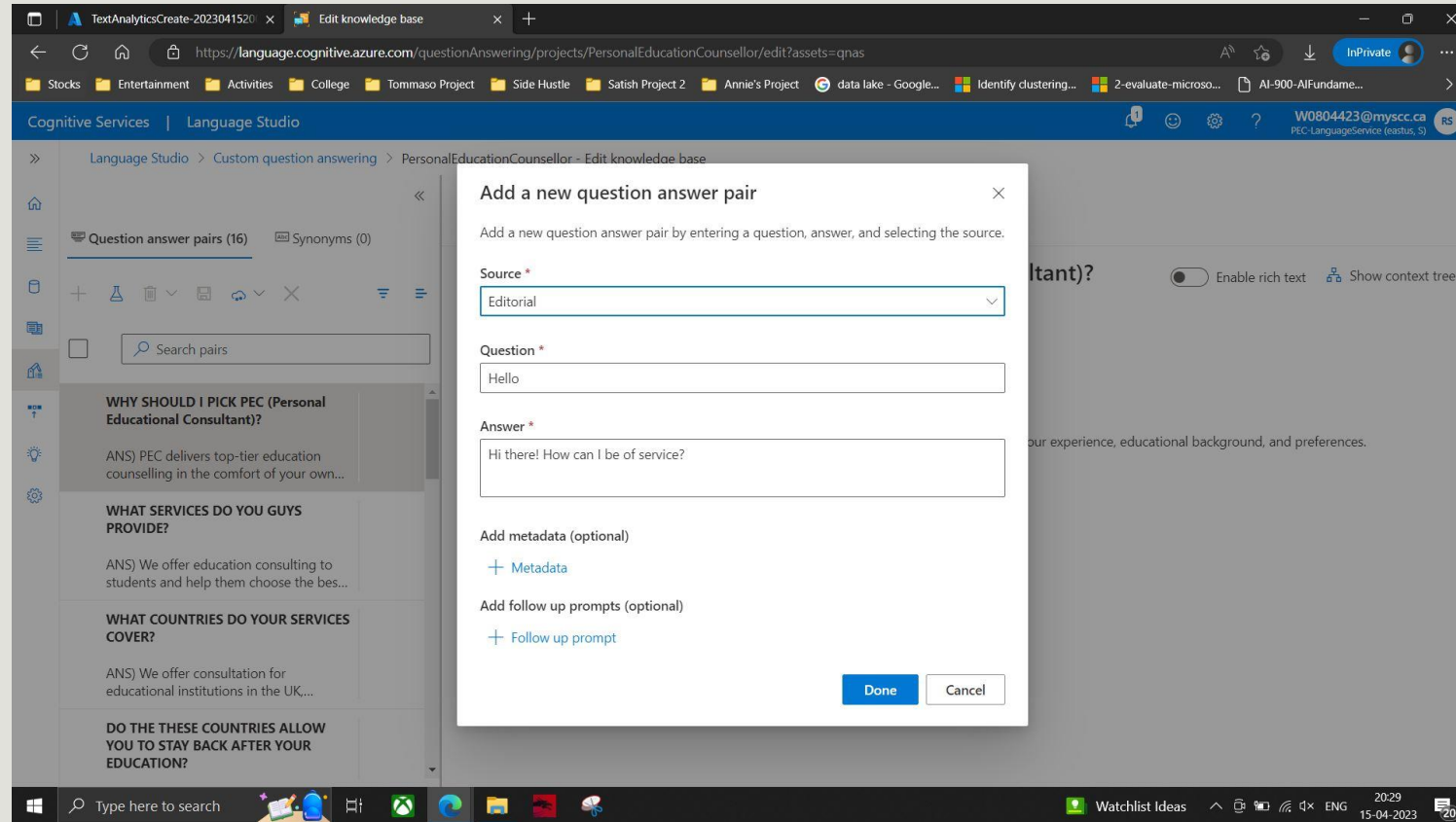
Knowledge base

The screenshot displays the 'Edit knowledge base' interface within the Microsoft Azure Cognitive Services Language Studio. The browser address bar shows the URL: <https://language.cognitive.azure.com/questionAnswering/projects/PersonalEducationCounsellor/edit?assets=qnas>. The interface is divided into several sections:

- Left Sidebar:** Contains navigation icons and a list of 'Question answer pairs (16)'. The first pair is highlighted: 'WHY SHOULD I PICK PEC (Personal Educational Consultant?)' with the answer 'ANS) PEC delivers top-tier education counselling in the comfort of your own...'. Other visible pairs include 'WHAT SERVICES DO YOU GUYS PROVIDE?' and 'WHAT COUNTRIES DO YOUR SERVICES COVER?'.
- Top Bar:** Displays 'Cognitive Services | Language Studio' and a user profile 'W0804423@myscc.ca'.
- Main Content Area:**
 - Edit knowledge base:** Shows '0 unstructured sources and 1 structured sources. [View sources](#)'.
 - WHY SHOULD I PICK PEC (Personal Educational Consultant?):** Includes a source 'Questions.docx' and an answer 'ANS) PEC delivers top-tier education counselling in the comfort of your own home, subject to your experience, educational background, and preferences.'.
 - Alternate questions (1):** A list of related questions.
 - Follow up prompts (0):** A list of follow-up prompts.
 - Metadata (0):** A list of metadata items.

The Windows taskbar at the bottom shows the system clock as 20:28 on 15-04-2023, along with various application icons and a search bar.

Adding new Question Answer Pair



Testing

The screenshot displays the Azure Cognitive Services Language Studio interface, specifically the 'Edit knowledge base' section. The browser address bar shows the URL: <https://language.cognitive.azure.com/questionAnswering/projects/PersonalEducationCounsellor/edit?assets=qnas>. The page title is 'Cognitive Services | Language Studio'. The main content area is titled 'Edit knowledge base' and shows '0 unstructured sources and 2 structured sources'. A search bar is present with the text 'Search pairs'. The 'Question answer pairs (17)' list includes:

- Hello**
Hi there! How can I be of service?
- WHY SHOULD I PICK PEC (Personal Educational Consultant)?**
ANS) PEC delivers top-tier education counselling in the comfort of your own...
- WHAT SERVICES DO YOU GUYS PROVIDE?**
ANS) We offer education consulting to students and help them choose the bes...
- WHAT COUNTRIES DO YOUR SERVICES COVER?**
ANS) We offer consultation for educational institutions in the UK...

The 'Test' panel on the right shows the 'Response options' section with checkboxes for 'Include short answer response' and 'Use deployed knowledge base'. Below this, there is a 'Show advanced options' link. The 'Test' panel also displays a 'Clear' button and a 'Howdy' button. The main content area shows the 'Hello' entry with a source of 'Editorial' and an 'Answer' section containing the text 'Hi there! How can I be of service?'. The 'Test' panel shows a response: 'Sorry, I'm unable to assist. Please contact education@pec.org for further assistance.'

Deploying Knowledge base

Language Studio > Custom question answering > PersonalEducationCounselor - Deploy knowledge base

Deploy knowledge base

Deploy knowledge base and create a bot in a few clicks.

Deploy Get prediction URL

✓ Your knowledge base is now deployed. You can get your prediction URL or create a bot.

Knowledge base status	
State: ⓘ	Deployed ✓ Resource: PEC-LanguageService
Deployment Date: ⓘ	4/16/2023 ✓ Location: eastus
Deployment Time: ⓘ	3:08:59 AM ✓ Tier: Standard (S)

Next steps: Create a bot

Step 1: [Read the documentation](#) to learn more about creating bots.

Step 2: Go to Azure to create a bot.

[Create a bot](#)

Deployment metrics

The screenshot shows the 'Custom deployment' page in the Azure portal. The browser address bar shows the URL `https://portal.azure.com/#create/Microsoft.Template`. The page title is 'Custom deployment' with a subtitle 'Deploy from a custom template'. The 'Instance details' section shows 'Resource group location' as '(US) East US' and 'Azure Bot' 'Bot handle' as 'PEC-LanguageService-bot'. The 'Choose your pricing tier' section shows the 'Free' tier selected. The 'Microsoft App ID' section shows 'Creation type' with 'Create new User-assigned managed identity' selected. At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Web App >'. The Windows taskbar at the bottom shows the date and time as 03:11 on 16-04-2023.

TextAnalyticsCreate-2023041520 x Deploy knowledge base x Custom deployment - Microsoft x +

https://portal.azure.com/#create/Microsoft.Template

Microsoft Azure Search resources, services, and docs (G+/)

Home >

Custom deployment

Deploy from a custom template

Instance details

Resource group location * ⓘ (US) East US ✓

Azure Bot

Bot handle * ⓘ PEC-LanguageService-bot ✓

Choose your pricing tier

Select a pricing tier for your Azure Bot resource. You can change your selection later in the Azure portal's resource management. Learn more about available options, or request a pricing quote, by visiting the [Azure Bot Services pricing](#)

Pricing tier

Free
[Change plan](#)

Microsoft App ID

Add user assigned identities to grant the resource access to Azure Bot resource.

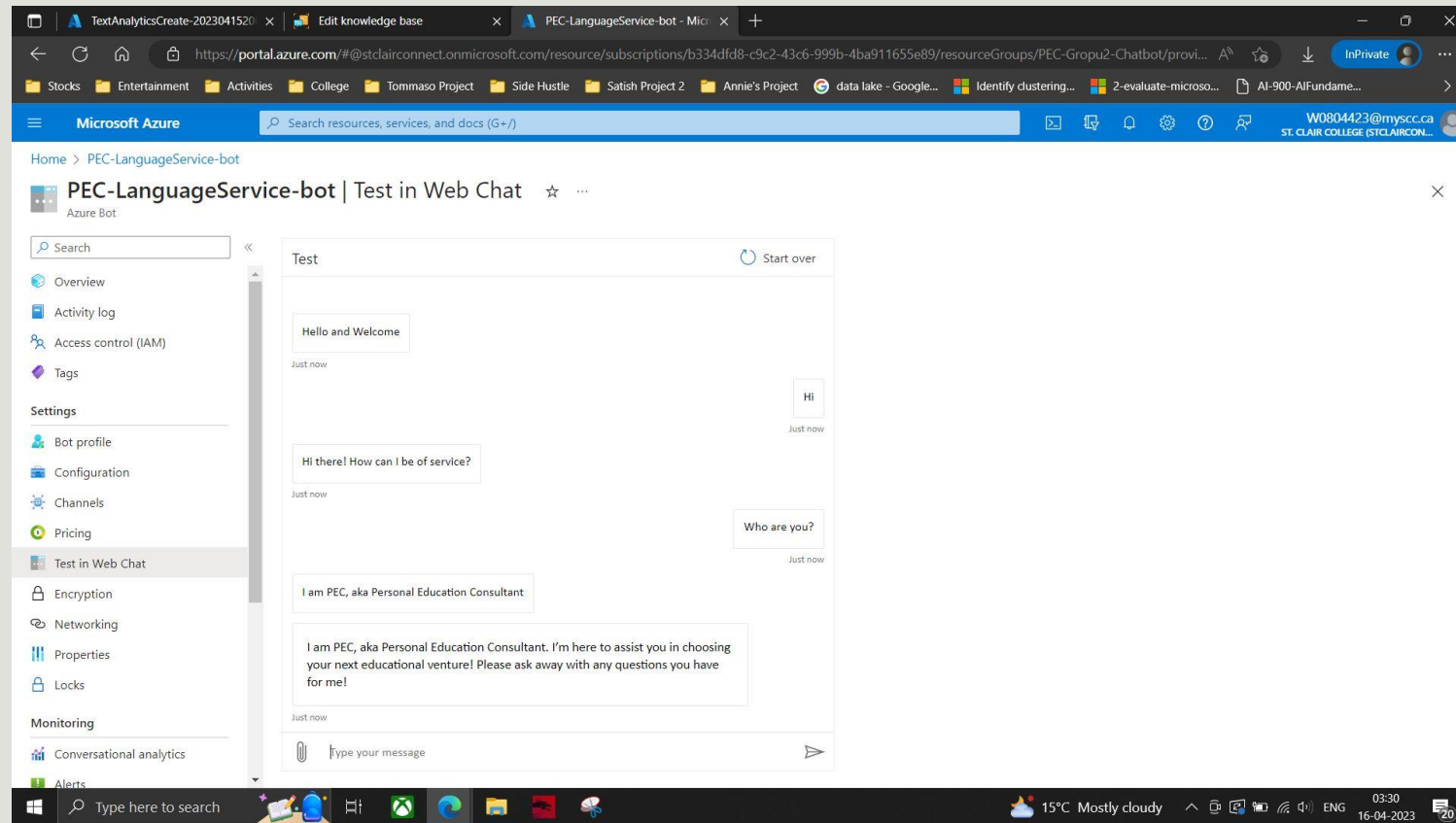
Creation type

☒ Create new User-assigned managed identity
☐ Use existing User-assigned managed identity

[Review + create](#) < Previous Next : Web App >

15°C Mostly cloudy 03:11 16-04-2023

Chat bot - Online



Update Knowledge base with suggestions from Chat bot

Language Studio > Custom question answering > PersonalEducationCounsellor - Review suggestions

Review suggestions

Review, accept, or reject suggested alternate phrases for questions. These suggestions come from users interacting with your bot. Only the questions with suggestions are shown.

+ Accept all suggestions | - Reject all suggestions | Show columns

Canada	Which course would you like to study?
I want to study in canada	Computer Science
In canada which college is best for management...	Data Analytics
	Business
	Medicine
	Media
Media in Canada	These are the Top Colleges and Universities that Provide Media in Canada:
media in can	1. Bachelor of Media Studies - University of British Columbia
in canada	2. Bachelor of Journalism - Carleton University
	3. Bachelor of Media Production and Design - Western University
	4. Bachelor of Fine Arts in Film Production - York University
	5. Bachelor of Applied Communications in Professional Writing - Mount Royal University
Media in USA	These are the Top Colleges and Universities that Provide Media in the USA:
	1. Bachelor of Arts in Media Studies - University of California, Berkeley
	2. Bachelor of Science in Communication and Media - Rochester Institute of Technology



Thank you....