## **Case Study**

## Title: Ask-GPT Activity Utilization in UiPath with Microsoft Azure

#### Introduction:

In this case study, we explore the utilization of the Ask-GPT activity in UiPath automation workflows, leveraging the power of Microsoft Azure's cloud infrastructure. The Ask-GPT activity utilizes the advanced natural language processing capabilities of OpenAI's GPT architecture to enhance the conversational abilities of UiPath robots.

## **Background:**

UiPath is a leading Robotic Process Automation (RPA) software platform that allows businesses to automate repetitive tasks and streamline workflows. It provides a visual, drag-and-drop interface for building automation processes known as "workflows." UiPath workflows can interact with various systems and applications, enabling automation across multiple business functions.

Microsoft Azure is a comprehensive cloud computing platform that provides a wide range of services, including virtual machines, storage, and machine learning capabilities. Azure's cloud infrastructure offers scalability, reliability, and security, making it an ideal choice for running automation processes.

#### **Problem Statement:**

Traditional automation processes lack the ability to handle complex natural language queries and provide intelligent responses. The goal of this case study is to demonstrate how the Ask-GPT activity, integrated with Microsoft Azure, can enhance the conversational capabilities of UiPath robots, enabling them to understand and respond to user queries in a more human-like manner.

## **Solution:**

To achieve this, we leverage the Ask-GPT activity, which is a custom UiPath activity developed using OpenAl's GPT language model. By integrating this activity into UiPath workflows and deploying them on Microsoft Azure, we enable the following capabilities:

- a. Natural Language Processing: The Ask-GPT activity can understand and process user queries written in natural language, allowing robots to interact with users in a conversational manner.
- b. Contextual Understanding: The activity leverages the advanced language understanding capabilities of GPT, enabling robots to grasp the context of user queries, extract relevant information, and provide accurate responses.
- c. Intelligent Responses: The Ask-GPT activity generates human-like responses, offering intelligent solutions and recommendations to user queries, based on the information provided and the context understood.
- d. Scalability and Reliability: By deploying the UiPath workflows on Microsoft Azure, organizations can take advantage of Azure's robust cloud infrastructure, ensuring high scalability, availability, and fault tolerance.

## **Implementation:**

The implementation of the Ask-GPT activity in UiPath with Microsoft Azure involves the following steps:

- a. Integration: The Ask-GPT activity is integrated into UiPath Studio, allowing developers to include it as part of their automation workflows.
- b. Configuration: Developers configure the Ask-GPT activity by specifying the input query and other relevant parameters, such as the context and desired response format.
- c. Azure Deployment: The UiPath workflows containing the Ask-GPT activity are deployed on Microsoft Azure, leveraging Azure's virtual machines or containerization technologies for scalability and resource management.
- d. Orchestrator Integration: UiPath Orchestrator, the centralized automation management platform, is used to schedule, monitor, and manage the execution of the Ask-GPT workflows on Azure.

## **Benefits:**

# The utilization of the Ask-GPT activity in UiPath workflows with Microsoft Azure offers several benefits:

- a. Enhanced User Interaction: Robots can understand and respond to user queries in a conversational manner, improving the user experience and reducing the need for manual intervention.
- b. Intelligent Decision Making: The Ask-GPT activity provides intelligent solutions and recommendations based on the context and information provided, enabling robots to make informed decisions autonomously.
- c. Improved Efficiency: By automating complex natural language interactions, organizations can streamline processes, reduce human errors, and achieve higher operational efficiency.

## **Support and Recommended Usage:**

The GPT Activities package is not officially supported part of the UiPath platform. It is intended to be used for non-prod scenarios like demos, PoCs, pilot projects to help your customers become familiar with this revolutionary new AI technology and its capabilities and limitations.

The Document Understanding Product team is working to integrate a similar capability into the official Document Understanding product by end of June 2023.

## **Data security:**

The Ask GPT activity uses a GPT resource in Microsoft Azure which is the gold standard in enterprise readiness, and data privacy and security compliance. This activity does NOT send data to OpenAI or OpenAI services.

The OpenAlConnectionScope activity uses the OpenAl APIs and requires you/the user to have an active subscription to OpenAl services and a valid API Key obtained from your OpenAl account. This activity sends data to OpenAl services.