Course Code: W7S162GS

Course Title: Creating voice interfaces with IBM Watson Speech to Text and Text to Speech services

Description:

This course takes you through applying IBM Watson Speech to Text and Text to Speech technology for your unique use case.

An emerging trend in AI is the availability of technologies that add speech capabilities by enabling fast and accurate speech transcription in multiple languages. Use cases include customer self-service, agent assistance, and speech analytics. This course opens with explaining, at a high level, some common business use cases for Watson Speech Services and the underlying science behind the technology of Watson Speech to Text and Text to Speech. You leverage the API for calling speech services, customizing, and deploying speech prototypes to suit your unique domain language. The course concludes with you integrating voice capabilities into an existing Watson Assistant agent by using Watson Speech to Text and Text to Speech.

Objectives:

After completing this course, you should be able to:

- Describe the purpose, value, and some potential benefits of Speech Recognition
- Interpret the various components of IBM Watson Speech Services
- Identify some common business use cases for Watson Speech Services
- Leverage the Watson Speech to Text API service to create a prototype that converts speech to text
- Improve the transcription of the prototype by using a trained customized language model
- Leverage Watson Language Translator to get transcriptions in multiple languages
- Improve the transcription of the prototype by using a trained customized model
- Integrate a deployed Watson Assistant agent with IBM Watson Speech Services to enable voice conversations

Prerequisites:

Before taking this course, you should have:

- Basic Python
- Basic knowledge of RESTful API
- General use of IBM Cloud and an IBM Cloud account

Duration:

7.2 Hrs

Topics:

- Introducing Speech Recognition and Watson Speech Services
- In-depth analysis of Watson Speech to Text
- In-depth analysis of Watson Text to Speech
- Adding a voice interface to a Watson Assistant agent

Audience:

This course is intended for

- Practicing AI specialists looking to add speech capabilities to their existing AI-powered services like chatbots
- Practicing Data Scientists looking to get insights from speech and text analysis
- Business leaders looking to interpret the capabilities of IBM Watson Speech to Text and Text to Speech
- And apply this technology to solve related domain problems
- Anyone looking to know the process of integrating speech to text or text to speech with a chatbot like Watson Assistant