


New

IBM W7L168G - Watson Speech: Creating Voice Interfaces Using Speech APIs

 Präsenztraining



7h00

Preis : 850,00 € netto
1.011,50 € inkl. 19 % MwSt.
Inhouse-Paket : Auf Anfrage

Nr.: 30727

Overview

Voice technologies are rapidly reshaping how businesses interact with customers, automate operations, and analyze conversations. Today's AI systems can deliver fast, accurate, and natural-sounding speech capabilities across multiple languages, supporting use cases such as customer self-service, live agent assistance, real-time analytics, and more. In this course, learners will explore how to apply IBM Watson Speech to Text and Watson Text to Speech to build voice-enabled solutions tailored to their unique business needs. By the end of the course, participants will have the skills to design, customize, and integrate AI-powered voice solutions that deliver seamless, human-like interactions across multiple platforms.

Wer sollte teilnehmen:

Zielgruppe

Audience

This course is intended for

- Anyone looking to automate transcribing and synthesizing speech by using Watson Speech to Text and Text to Speech Technology
- Practicing AI specialists looking to add speech capabilities to their existing AI-powered services, such as AI assistants and AI agents
- Practicing Data Scientists looking to get insights from speech and text analysis
- Business leaders looking to understand the capabilities of Watson Speech to Text and Text to Speech, and apply this technology to solve related domain problems
- Anyone looking to understand the process of integrating speech-to-text or text-to-speech with an AI assistant or AI agent

Voraussetzungen

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

Trainingsprogramm

Course Outline

- Unit 1. Introduction to Speech Transcription, Synthesis and the Watson Speech services
- Unit 2. In-depth exploration of Watson Speech to Text
- Exercise A: Prepare the Lab Environment for Speech to Text
- Exercise B: Transcribe with the English US Telephony Model
- Exercise C: Train a Language Model
- Exercise D: Using Grammars
- Exercise E: Language Translation with a Granite LLM
- Exercise F: Additional Speech to Text Features
- Unit 3. In-depth exploration of Watson Text to Speech
- Exercise A: Prepare the Lab Environment for Text to Speech
- Exercise B: Synthesis Using a Standard English Model
- Exercise C: Customizing Models
- Exercise D: Additional Text to Speech Features
- Unit 4. Adding a Voice Interface with Watson Speech Services
- Exercise: Integrating watsonx Assistant with Watson Speech

Objective

After completing this course, you should be able to:

- Explain the value of speech recognition and common Watson Speech business use cases
- Leverage the Watson Speech to Text API to build a simple working prototype that transcribes speech to text for a business problem
- Leverage the Watson Text to Speech API to build a simple working prototype that synthesizes text to speech for a business problem
- Leverage the watsonx.ai API to integrate IBM Granite LLMs for language translation
- Infuse voice capabilities into an AI assistant built with watsonx Assistant by integrating it with Watson Speech



Schulungsmethode

presentation, discussion, hands-on exercises