



ARTIFICIAL
INTELLIGENCE



Innovation
Academy

Introduction to AI using Microsoft Cognitive Services

2 Day Workshop | 30-31st October 2019
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Course Overview

Artificial intelligence (AI) is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans. AI is all the rage these days. However, unless you have a PhD in AI, AI programming remains an elusive field to many developers. But this should not be the case. What most developers want is the ability to integrate AI capabilities into their applications, without knowing the nuts and bolts of how AI works.

In this course, Wei-Meng Lee will introduce to you Microsoft's Cognitive Services APIs and teach you how to incorporate AI capabilities into your applications without needing to build the AI services from scratch. Developers simply need to choose the relevant algorithms from the Cognitive Services for their needs and requirements.

From this course you will be able to create applications that can:

- Make smart recommendations
- Perform language translations
- Use machine vision to recognise users and emotions
- Perform web searches

What sets this programme apart?

- Hands-on training. You will get to use the platform to create intelligent products
- This course will show you how to benefit from AI services without being trained in data science
- Expert guidance. Wei-Meng Lee has over 15 years' experience dedicated to training software developers and engineers across the world on various technologies

Who should attend?

Software developers, engineers and product manager who want to understand how they can use the platform to incorporate AI services into their products

Agenda

Introduction to Artificial Intelligence and Machine Learning

What is the Microsoft Cognitive Services

Building Various Types of Applications to integrate with components in the Cognitive Services

- Vision
 - Computer Vision
 - Video Indexer
 - Custom Vision
 - Face Recognition
 - Content Moderator
- Speech
 - Speech to Text
 - Text to Speech
 - Speaker Recognition
 - Speech Translation
- Language
 - Text Analytics
 - Spell Check
 - Language Understanding
 - Translator Text
- Knowledge:QnA Maker
- Search
 - Web, Video, Image, Visual & News Search
 - Autosuggest

Types of applications you will be building:

- iOS
- Android
- Python
- Windows

Prerequisites

- Basic programming experience
- Understanding of basic object-oriented programming concepts

Hardware

- Mac / Windows laptop

Software

- Anaconda
- Visual Studio for Mac / Visual Studio
- 2017 for Windows
- Xcode (Mac)
- Android Studio

At the end of this programme delegates will be able to:

- Use the various services and APIs in the Microsoft Cognitive Services
- Incorporate AI services into the various types of applications - Python, Android, and iOS
- Understand how to get their apps to:
 - Make smart recommendations
 - Perform language translations
 - Recognise users and emotions
 - Recognise speech