

Session	Syllabus
1	<p>Introduction to Artificial Intelligence</p> <p>Identify Features of common AI Workloads</p> <p>Identify Anomaly Detection Workloads</p> <p>Identify Computer Vision Workloads</p> <p>Identify Natural Language Processing workloads</p> <p>Identify Knowledge Mining Workloads</p> <p>Identify Guiding Principles of responsible AI</p>
2, 3, 4	<p><b>Describe fundamental principles of machine learning on Azure</b></p> <p><b>Identify common machine learning types</b></p> <ul style="list-style-type: none"> <li>• identify regression machine learning scenarios</li> <li>• identify classification machine learning scenarios</li> <li>• identify clustering machine learning scenarios</li> </ul> <p><b>Describe core machine learning concepts</b></p> <ul style="list-style-type: none"> <li>• identify features and labels in a dataset for machine learning</li> <li>• describe how training and validation datasets are used in machine learning</li> </ul> <p><b>Describe capabilities of visual tools in Azure Machine Learning Studio</b></p> <ul style="list-style-type: none"> <li>• automated machine learning</li> <li>• azure Machine Learning designer</li> </ul>
5,6	<p><b>Describe features of computer vision workloads on Azure</b></p> <p><b>Identify common types of computer vision solution:</b></p> <ul style="list-style-type: none"> <li>• identify features of image classification solutions</li> <li>• identify features of object detection solutions</li> <li>• identify features of optical character recognition solutions</li> <li>• identify features of facial detection, facial recognition, and facial analysis solutions</li> </ul>

	<b>Identify Azure tools and services for computer vision tasks</b> <ul style="list-style-type: none"> <li>• identify capabilities of the Computer Vision service</li> <li>• identify capabilities of the Custom Vision service</li> <li>• identify capabilities of the Face service</li> <li>• identify capabilities of the Form Recognizer service</li> </ul>
7,8,9	<b>Describe features of Natural Language Processing (NLP) workloads on Azure</b> <p><b>Identify features of common NLP Workload Scenarios</b></p> <ul style="list-style-type: none"> <li>• identify features and uses for key phrase extraction</li> <li>• identify features and uses for entity recognition</li> <li>• identify features and uses for sentiment analysis</li> <li>• identify features and uses for language modeling</li> <li>• identify features and uses for speech recognition and synthesis</li> <li>• identify features and uses for translation</li> </ul> <p><b>Identify Azure tools and services for NLP workloads</b></p> <ul style="list-style-type: none"> <li>• identify capabilities of the Language service</li> <li>• identify capabilities of the Speech service</li> <li>• identify capabilities of the Translator service</li> </ul> <p><b>Identify considerations for conversational AI solutions on Azure</b></p> <ul style="list-style-type: none"> <li>• identify features and uses for bots</li> <li>• identify capabilities of the Azure Bot service</li> </ul>
10	Project & Doubt Clarifications

## **Artificial Intelligence Syllabus**

**Total Hours : 40**

**Each session for 4 Hours**