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Hands-On Workshop

In this workshop, we will cover the Microsoft Cognitive and Bot offerings through various demos and presentations. We will also get an opportunity to work hands-on with these offerings by writing code in Python for NLP scenarios.

At the end of the session participants will have a good sense of Microsoft offerings for creating Bots, leveraging our cognitive services and using Python to build simple NLP models.

Agenda

| Topic | Activity | Timing |
|---|----------|-------------|
| Installation and Setup of Azure Machine Learning Workbench and Azure Subscription (Pre-requisite) | | 30 minutes |
| Hands-On Exercise: Create a Free Microsoft Azure Account and a Data Science Virtual Machine | | |
| Python and NLP Examples Using Azure Machine Learning Workbench | | 120 minutes |
| Download Presentation | | |
| Jupyter Notebook | | |
| Final Jupyter Notebook | | |
| Topics & Demos: NLP overview & background, Data Pre-processing/Cleaning, Part of Speech Tagging and Information Extraction, Question Answering, Text Summarization, Sentiment Analysis and Semantics | | 30 mins |
| Cognitive Services, Bot services for LUIS, and QNA Maker | | 60 minutes |
| Download Presentation | | |
| Topics & Demos: Cognitive Services, QNA Maker, LUIS Litware Bot, Cortana Intelligence Gallery | | 60 minutes |
| Capstone Project | | 60 minutes |
| Self-Paced Option: Build a Simple Chat Bot with LUIS | | |
| Self-Paced Option: Use the Python/AML Workbench to build a demo project | | |
| Hands-On Exercise Option: Create a Bot with the Azure Bot Service | | |
| Hands-On Exercise Option: Create your first LUIS App | | |
| Hands-On Exercise Option: Create a QNA Maker Knowledge Base | | |
| Hands-On Exercise Option: Automated ARM Deployment | | |
| Closing | | 15 minutes |
| Topics & Demos: Cleaning up your Subscription | | |
| Hands-On Exercise: Azure Resource Group Cleanup | | |