**ONNX**

Workshop Details:

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| Duration: | 2 Hours |
| Description: | Open Neural Network Exchange (ONNX) is an open format built to represent machine learning models. It defines the building blocks of machine learning and deep learning models along with a common file format to enable AI developers to use models with a variety of frameworks, tools, runtimes, and compilers. With this curriculum we will understand what is ONNX and how to get started with it. |
| Participants’ Entry Profile/Target Audience: | Participants attending this course must have experience on:   * Python Programming Language |
| Training Methodology: | The workshop will follow Synergetics methodology of   * Concept Visualization * Active Experimentation * Active Demonstration |

Setup Requirements for Presenter Machine:

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| Hardware and Software Requirements: | Trainer’s Machine are required to have:  Hardware   * Intel Core i5 or better * 8 GB RAM * 100 GB HDD space * LAN connectivity * Good Internet connectivity and bandwidth   Software   * Windows 10 or later * NodeJS 16.x * Visual Studio Code |

Agenda:

1. Challenges with Deep Learning
2. Overview of ONNX
3. ONNX Runtime
4. Demo- Exploring ONNX Models
5. Demo- Inference of ONNX Models
6. Demo- Exporting and Importing ONNX Models

Key Take away:

Participants can understand the about ONNX and how it empowers AI developers to choose the right tools as their project evolves.