

AI for Wireless Communications with MATLAB

OEM: MathWorks • Duration: 1 Day (8 hrs) • Code: MW-AI-FOR-WIRELESS-COMMUNICATIONS-WITH-M

COURSE MODULES & TOPICS

Day 1 of 1

Data Generation, Importing and Management

- Wireless Waveform Generator App
- Generate and visualize 5G NR standard-compliant waveforms
- Configure cluster delay line MIMO fading channel
- Generate dataset for training and testing deep networks
- Run for-loops in parallel
- Import data with signal datastores

Creating and Training Networks

- Create training, validation and testing sets
- Create and visualize deep learning networks
- Use GPU to train deep learning networks
- Experiment Manager app

Running Python from MATLAB

- Set up the Python environment in MATLAB
- Execute Python commands from MATLAB
- Execute Python scripts from MATLAB
- Create and train deep learning networks in Python