

Advanced Python	 Learning to write decorators, covering closures how to work with functions as first-class arguments variable arguments argument unpacking, even some details of how Python loads its source code. Exercise: Writing a simple profiling decorator Demystifying iterators, iterables and generators Exercises: writing useful generators	Morning Sessions
ing	Replacing Matlab with Python: • Numpy • Matplotlib • Scipy • Pandas	essions
Machine Learning	Exercises: Reading and writing csv files Plotting Data Manipulation of DataFrames in Pandas	Afternoon Se
	 Machine Learning: Basic Machine Learning with Python: Python algorithms implementing basic Neural Networks, k-Nearest-Neighbor, Naive-Bayes Using Scikit Basic Introduction into TensorFlow 	
	Exercises: Writing simple classifiers	A

Prerequisites:

- Basic Python skills:
 Data Types: lists, tuples, dictionaries
 Conditions and Loops
- Advanced programming experience in another programming language like Java, C++, C or Matlab