

ML workshops for data.sci.conf

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Beginner

Introduction to Python



Learn the basics of Python 3 in Azure Notebooks. Learn Python syntax, standard data types, as well as how to write a simple program.

Fundamentals of Data Science with Python



A core course in language fundamentals, data analysis, and machine learning from Microsoft's Data Scientists. Learn how to write basic programs in Python.

00.Syllabus.ipynb

01.Basics.ipynb

02.DataStructures.ipynb

03.FunctionalProgramming.ipynb

04.SortAndPatternMatching.ipynb

05.ObjectOriented.ipynb

06.BasicDifference2to3.ipynb

07.NumericalScientificComputing.ipynb

08.DataAnalysisI.ipynb

09.DataAnalysisII.ipynb

Intermediate

Discover Sentiments in Tweets



Notebooks can allow anyone with a social media account to gain a greater understanding about customers and communities by analyzing social feeds.

Create & Deploy an Intelligent Cloud Service



Unlock the power in your data by training intelligent apps and services using Azure ML. This sample notebook uses research data to train a model to predict body temperatures of mammals in Wisconsin.

Advanced

Introduction to Cognitive Toolkit (CNTK)



Learn the basics of CNTK, Microsoft's commercial grade deep learning toolkit. Use our Python notebooks and learn how harness the power of AI algorithms with uncompromised scaling, speed and accuracy.

[CNTK_101_LogisticRegression.ipynb](#)

[CNTK_102_FeedForward.ipynb](#)

[CNTK_103A_MNIST_DataLoader.ipynb](#)

[CNTK_103B_MNIST_LogisticRegression.ipynb](#)

[CNTK_103C_MNIST_MultiLayerPerceptron.ipynb](#)

[CNTK_103D_MNIST_ConvolutionalNeuralNetwork.ipynb](#)

[CNTK_104_Finance_Timeseries_Basic_with_Pandas_Numpy.ipynb](#)

[CNTK_105_Basic_Autoencoder_for_Dimensionality_Reduction.ipynb](#)

[CNTK_106A_LSTM_Timeseries_with_Simulated_Data.ipynb](#)

[CNTK_106B_LSTM_Timeseries_with_IOT_Data.ipynb](#)

Predictive Maintenance in Manufacturing



Businesses are interested in predicting problems in advance so that they can proactively prevent them from impacting production and customers. This sample implements a predictive model for component failure.