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- ## Courses For Event WT2017 Machine Learning

- Big Data Basics
- Big Data Hands On
- Python Fundamentals
- Python Machine Learning Course

- ## Topics For Big Data Basics

- Big Data Characteristics
- Benefits of Big Data
- Data Source Types for Big Data
- Big Data by Market Sector
- Big Data and Security
- Phases of the Data Life Cycle
- Big Data and the Data Analysis Process
- Big Data and Business Intelligence
- Basic Analytics for Big Data
- Advanced Analytics for Big Data
- Data Storage, Management, Cleaning, and Mining Tools
- Data Analysis, Visualization, and Integration Tools
- Big Data Analysis Challenges

- ## Topics For Big Data Hands On

- Introduction to Google Cloud
- Create a Linux Instance on Google Cloud
- Update a Linux Instance
- Installation of Hadoop on Linux Instance
- Introduction to Map Reduce
- Perform Big Data analysis on real big datasets

- ## Topics For Python Fundamentals

- An Overview of Python
- The Philosophy of Python
- Python 2 vs Python 3
- Installing Python 3 on Windows
- Installing Python 3 on Linux
- Python IDEs

- Whitespace in Python
- Read, Evaluate, Print, Loop
- Hello World
- User Input
- Modules and Imports
- The int Type in Python
- The float Type in Python
- Basic Math Functions in Python
- The bool Type in Python
- The str Type in Python
- The bytes Type in Python
- The bytearray Type in Python
- The list Type in Python
- The tuple Type in Python
- Slicing in Python
- The range Type and Function in Python
- The set Type in Python
- The dict Type in Python
- The While Loop in Python
- The For Loop in Python
- The if Statement in Python

Topics For Python Machine Learning Course

- Data Science Architecture
- Data Science Stages
- Python libraries for Data Science
- Installing Anaconda for Python
- Using Data Containers in Python
- Lists and Dictionaries
- Python List Comprehensions
- Ipython Components
- Exploring Jupyter Components
- Capturing output in Jupyter Notebook
- The Jupyter QT Console
- Debugging and Error Handling
- NumPy Overview
- NumPy components
- NumPy ndarray objects

- NumPy operations
- Creating NumPy Arrays
- Reading and Writing Data using Pandas
- Reading and Writing CSV Data using Pandas
- Reading JSON Data
- Generating and Parsing Dates using Pandas

This course ends on 06 January 2018

- Cleaning Up Data Arrays
- Loading a Dataset from a URL
- Handling Large Datasets
- Best functionality of pandas
- Pandas data structures overview
- Hierarchical Indexing with Pandas
- Querying data in pandas
- Data aggregation using Pandas DataFrames
- Data merging with Pandas DataFrames
- Scipy Overview
- Standardizing Data
- Normalizing Data
- Performing Linear Regression

This course ends on 13 January 2018