

Data Science Masterclass

Course Contents and Topic Overview

Course Contents:

- A couple of presentation Videos (like this one)
- Python Programming Videos with NumPy, Matplotlib, Pandas, Seaborn, and Bokeh
- Downloadable Resource PDFs
- Downloadable Python code files and Jupyter Notebooks

Course Overview:

- Introduction to Scientific Python Ecosystem and matplotlib
- Installation of Python 3 on Windows
- Raspberry Pi and Python
- A brief tour IDLE
- Python 3 Script Mode and Interpreter Mode
- Raspberry Pi vs Windows PC
- Python 3 Hello World Program

Course Overview:

- Installation of NumPy and Matplotlib
- Installing Jupyter on Windows and Raspberry Pi
- Remotely accessing Jupyter notebook
- A brief tour of Jupyter for Scientific Python Programming

Course Overview:

- Getting Started with NumPy
- Array creation routines
- Basic Visualization with Matplotlib
- Random Sampling
- Array Manipulation
- Bitwise Operations
- Statistical Functions

Course Overview:

- Plotting with matplotlib
- Linear algebra and Matrices with NumPy and SciPy
- Data Acquisition with Python 3
- Python 3 and MySQL

Course Overview:

- Data Acquisition with Pandas
- Data Cleaning with Pandas
- Data Wrangling and Analysis with Pandas
- Data Visualization
- Series in Pandas
- Panels in Pandas
- A bit of Machine Learning

Thank You

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