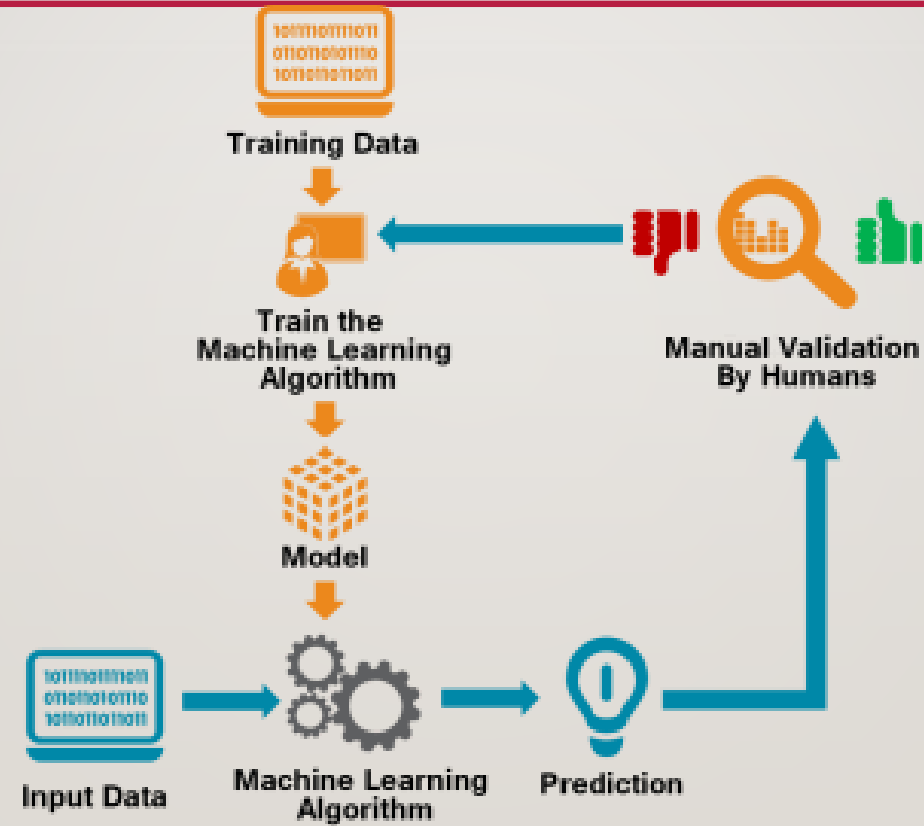


INTRODUCTION TO MACHINE LEARNING

WHY MACHINE LEARNING?

- At a very high level, machine learning is the process of teaching a computer system how to make accurate predictions when fed data.
- Develop systems that are automatically able to adapt to the environment, process the variables and produce results.
- Mimic humans and replace them in monotonous task which require certain intelligence:
 - Recognizing hand writings

MACHINE LEARNING MODEL



APPLICATIONS OF ML



PYTHON

- Python is a high-level, interpreted, general-purpose programming language. Created by Guido van Rossum and first released in 1991.
- Python interpreters are available for many operating systems.
- It supports a huge number of libraries solving a great deal of problems with greater ease.

INSTALLING PYTHON

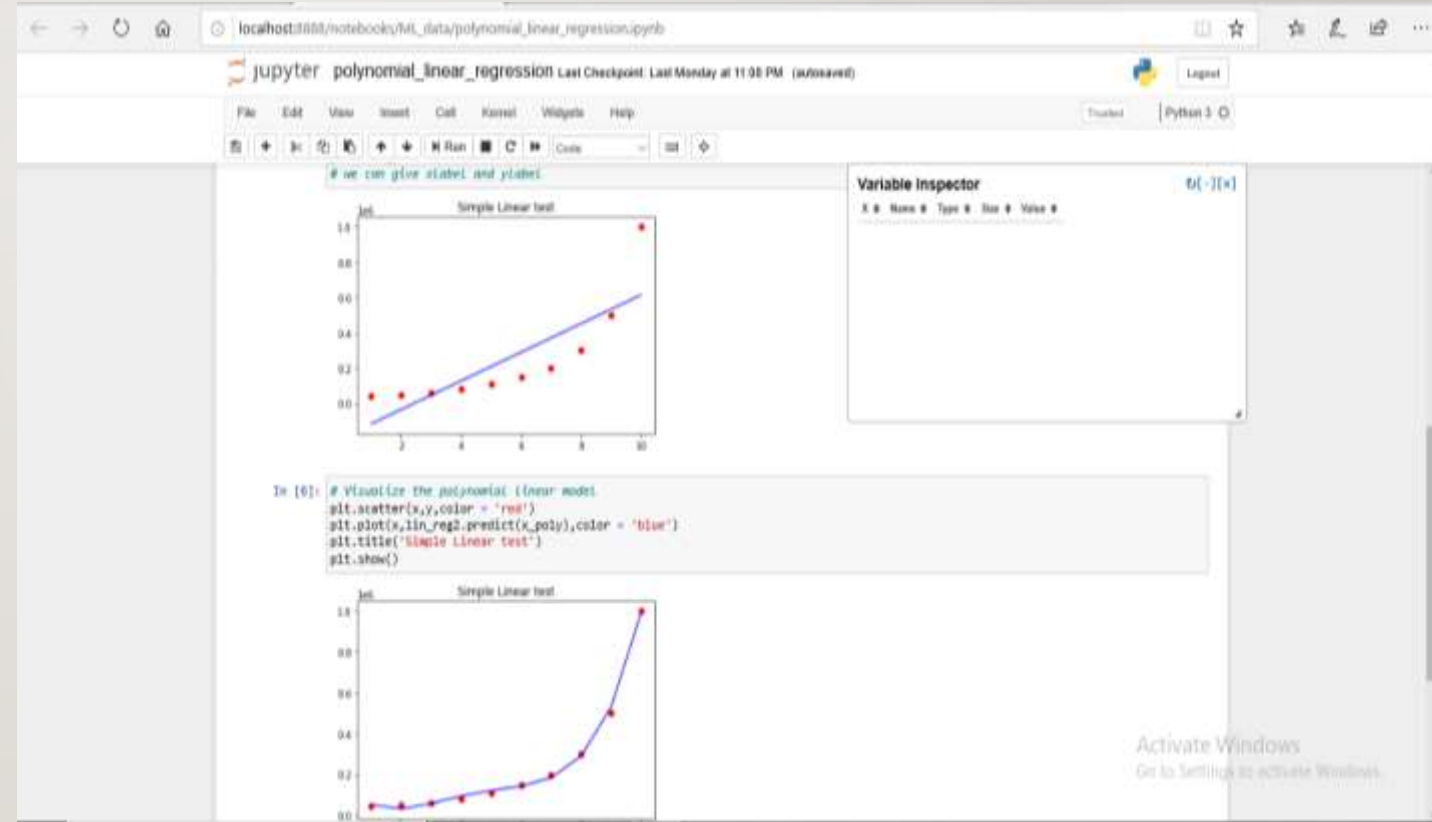
- For Windows download the python installer from the www.python.org/downloads/windows
- For MAC OS:
 - <https://www.python.org/downloads/mac-osx/>

IMPORTANT PYTHON LIBRARY

- Numpy : `pip install numpy`
- Matplotlib : `pip install matplotlib`
- Pandas : `pip install pandas`
- Scikit-learn : `pip install scikit-learn`

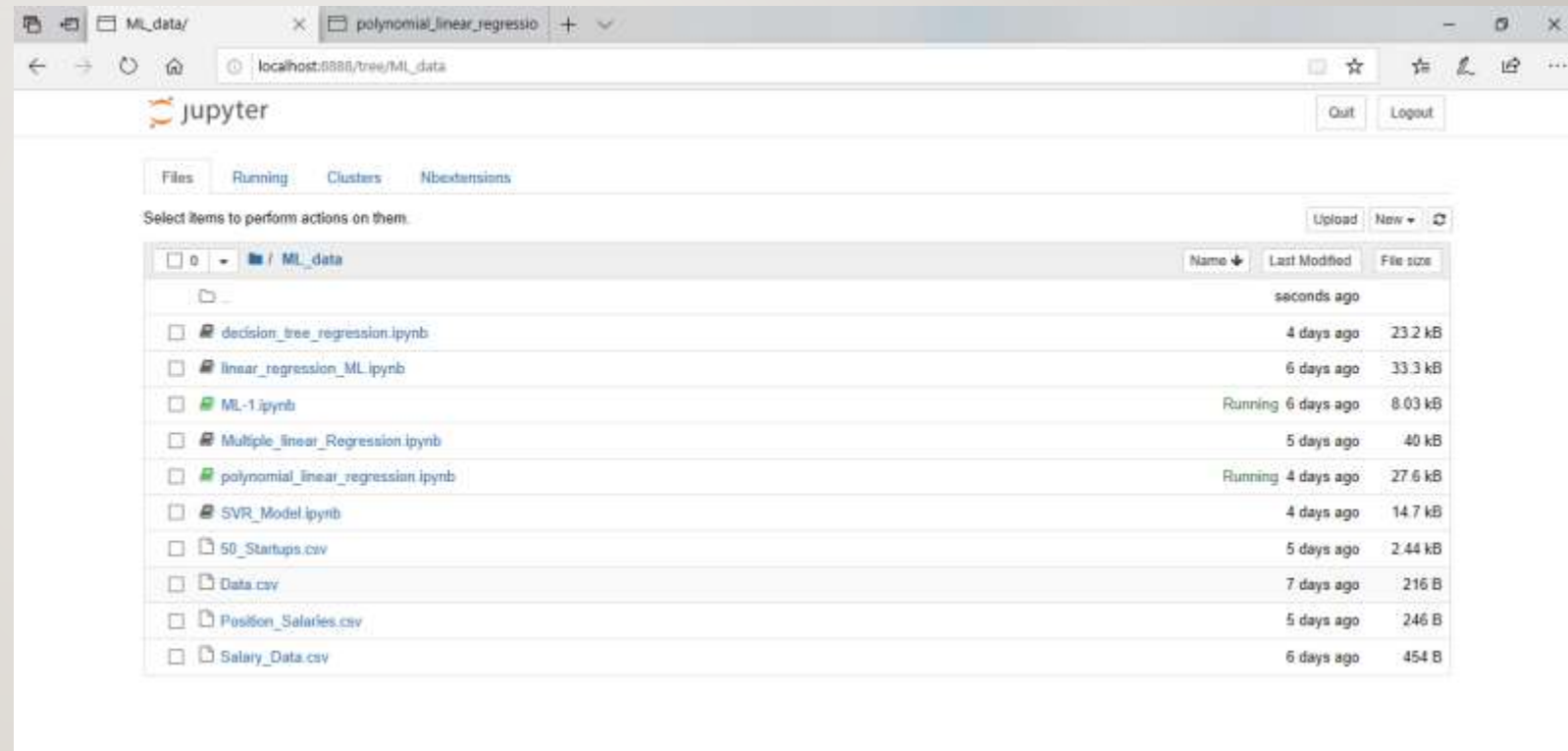
JUPYTER NOTEBOOK

- The Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text.
- For now, you should know that "Jupyter" is a loose acronym meaning Julia, Python, and R. These programming languages were the first target languages of the Jupyter application.



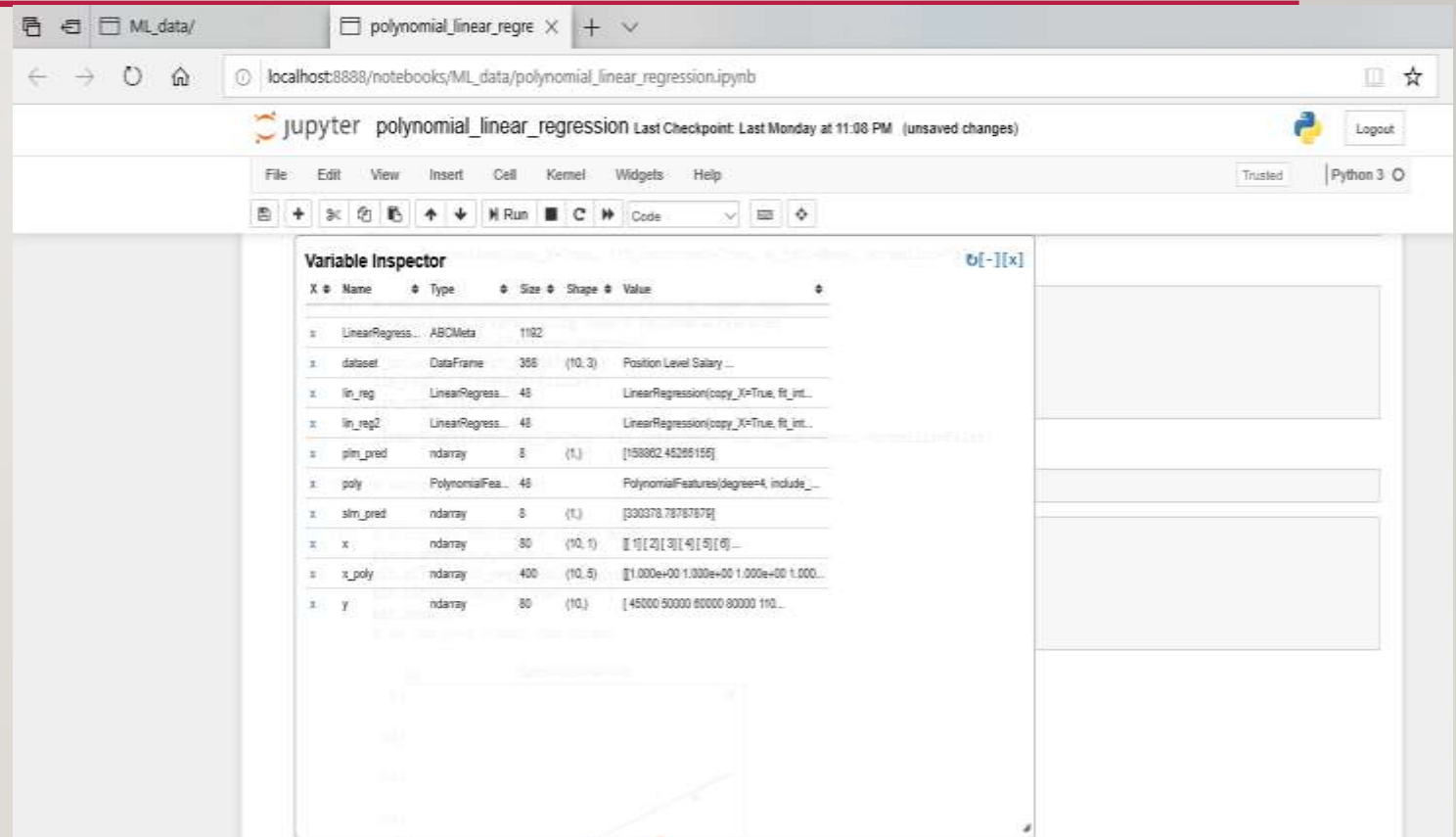
INSTALLING JUPYTER NOTEBOOK

- pip3 install --upgrade pip
- pip3 install jupyter
- To run jupyter notebook:
- Jupyter notebook



ADDING VARIABLE INSPECTOR

- pip install
jupyter_contrib_nbextensions
- jupyter contrib
nbextension install --user
- jupyter nbextension enable
varInspector/main



WORKBOOK IN JUPYTER



THANK YOU