UniNapoli: Lectio 8 Maggio

8 May 2020 event where we talk about Machine Learning on Azure and forecast analysis with python and jupyter notebook.

Agenda

1. Presentation ⏱ **14:30**
   - Who Am I
   - Who Is Proge-Software
2. Introduction **14:45**
   - Python
     - Pandas
     - NumPy
     - Matplotlib
     - Seaborn
     - Scikit-learn
   - Jupyter Notebook
   - Anaconda
   - Machine Learning
     - Supervised Learning
     - Unsupervised Learning
   - Preprocessing data
   - Forecast Analysis
     - Prophet
     - ARIMA: Autoregressive integrated moving average
3. Azure Machine Learning Studio (Preview) ⏱ **15:30**
   - What is Azure ML Studio (Preview)
     - Differences with Classic version of the platform
   - Why do we need it
   - How does it work
     - Compute
       - Compute Instances
       - Compute Clusters
       - Inference Clusters
       - Attached Compute
     - Notebooks
     - Work with Computes
       - Web
       - Command Line
4. Demo 🕐 **16:00**
   - Setup Azure ML Studio
   - Data
     - Preprocessing the Data
     - Code explanation

- Train the Prophet model and prediction of the trend
- Test the Prophet model

5. Where to go next **16:20**
    - Neural Networks
        - Tensorflow
        - Keras
        - pyTorch
6. Q&A **16:25**