Time Series Anomaly Detection Hands-on Session

Paul Boniol, Emmanouil Sylligardos

Setup Instructions

1. Visit the GitHub Repository
   a. Go to github.com/sylligardos/anomaly-detection-tutorial
   b. ⭐ Star the repo on GitHub :D
   c. Clone the repository:
      git clone https://github.com/sylligardos/anomaly-detection-tutorial.git
2. Download the Dataset
   a. Go to github.com/TheDatumOrg/TSB-UAD
   b. Download the **'Public'** dataset from the description or directly from this link:
      https://www.thedatum.org/datasets/TSB-UAD-Public.zip
   c. Unzip the dataset
   d. Move the **'TSB-UAD-Public'** directory into the **'anomaly_detection_tutorial/data/'** directory
3. Set Up the Conda Environment
   a. ! Make sure you have conda installed !
   b. Execute the following commands:
      i. conda create --name tutorial python=3.8.13
      ii. conda activate tutorial
      iii. pip install tsb-kit
      iv. pip install jupyter

Setup Instructions (continue)

4. Open the tutorial notebook
    a. Open a terminal from the **‘anomaly-detection-tutorial’** directory
    b. Run jupyter notebook:
    jupyter notebook
    c. In the Jupyter Notebook interface, open the **‘notebooks/tutorial_paris_2024.ipynb’** notebook.
5. Forget these slides
6. Get to work
7. Enjoy