SDG Africa Partnership

Workshop with Ellen and Charles, two scientists from Makerere University Kampala, Uganda, together with Clein and Rolf from HSRW 🙂

2023-11-07

- Download and install of QGIS
- Download and install anaconda
- conda environment creation
- installation of libraries according to https://github.com/rolfbecker/EE_3.07_Geodata_WS2022/tree/main/gdms0020_Course_Preparation
- Correction of packages: jupyterlab pandas geopandas shapely fiona pyproj rasterio sqlalchemy psycopg2 ipython-sql bs4
- https://cs231n.github.io/python-numpy-tutorial/ up to numpy

Extra material:

- pandas tutorial (comprehensive): https://github.com/ageron/handson-ml3/blob/main/tools_pandas.ipynb

2023-11-08

* Finished the numpy tutorial from cs231. Skipped the image processing for now * Followed partially the hands-on-ml3 tutorial (tools_pandas.ipynb). Material covered: - import pandas and alias - Series: create from list, give index, give name, create from dictionary. slicing, alignment, plotting - Handle time with pd.date_range() - Creating a Dataframe: by dictionary. - selecting columns, accesing values, filtering, transposing. **skipped multi-indexing, stacking and unstacking**, - datafream read: read_csv and read_excel. And dat frame write

Homework: explore the real data: https://firebasestorage.googleapis.com/v0/b/fao-aquastat.appspot.com/o/Excel%2FAfrica-dams_eng.xlsx?alt=media&token=b621f090-60cf-46f1-8472-9003ce314066