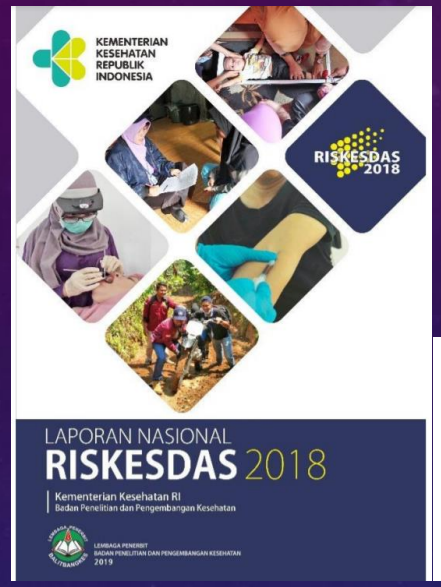
PYTHON FOR SPATIAL ANALYTICS

LUCAS ELBERT SURYANA

GEOLYTICS INSTITUTE

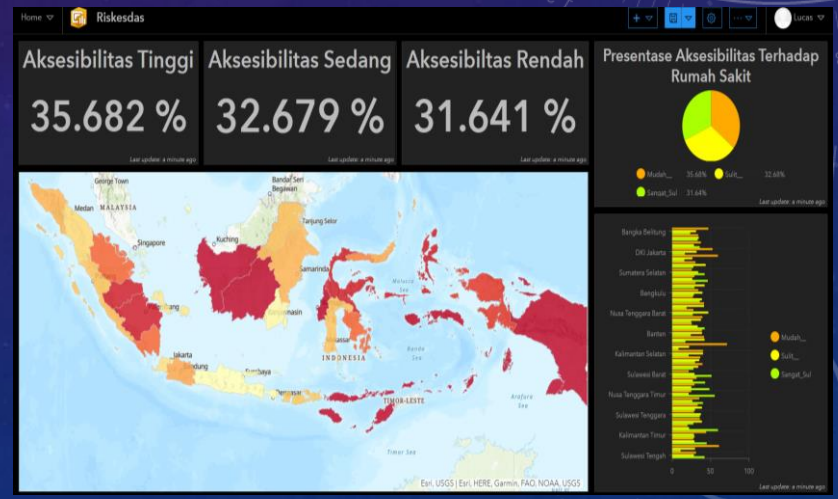
WORKING PROCEDURE ON TODAYS' SESSION



.csv file

Spatial analytics
Python

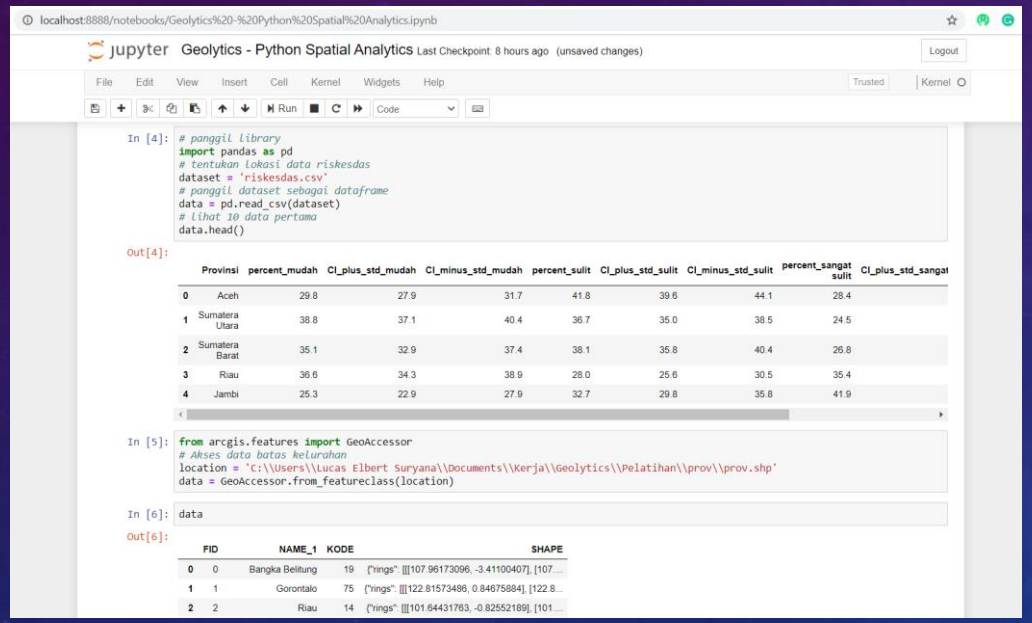
Dashboard



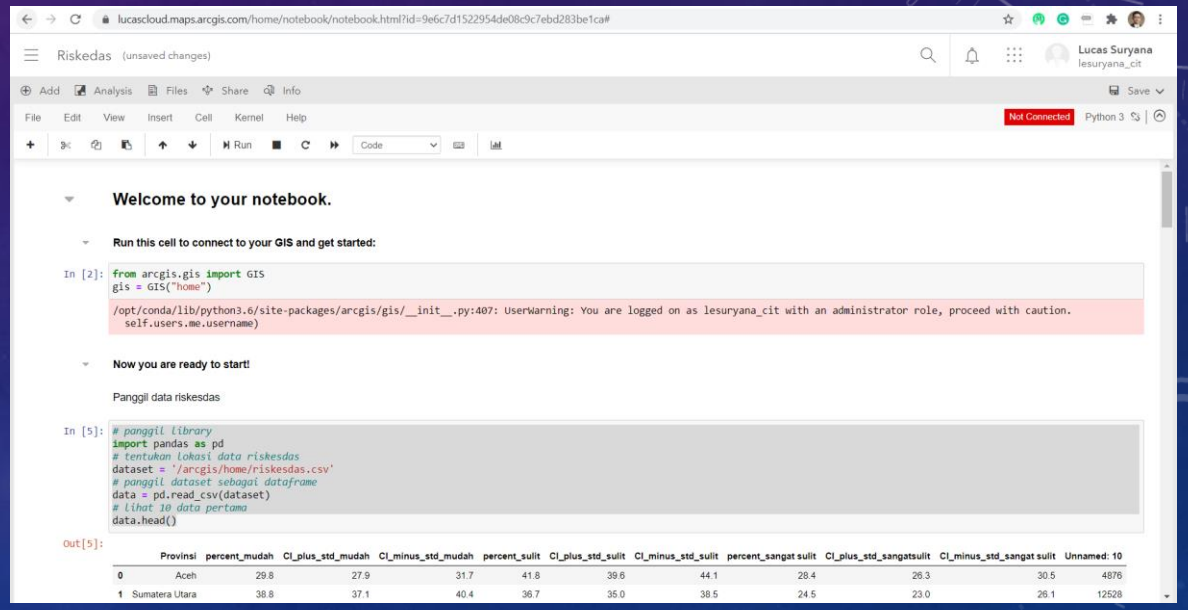
Cloud

HOW TO RUN PYTHON

On your local

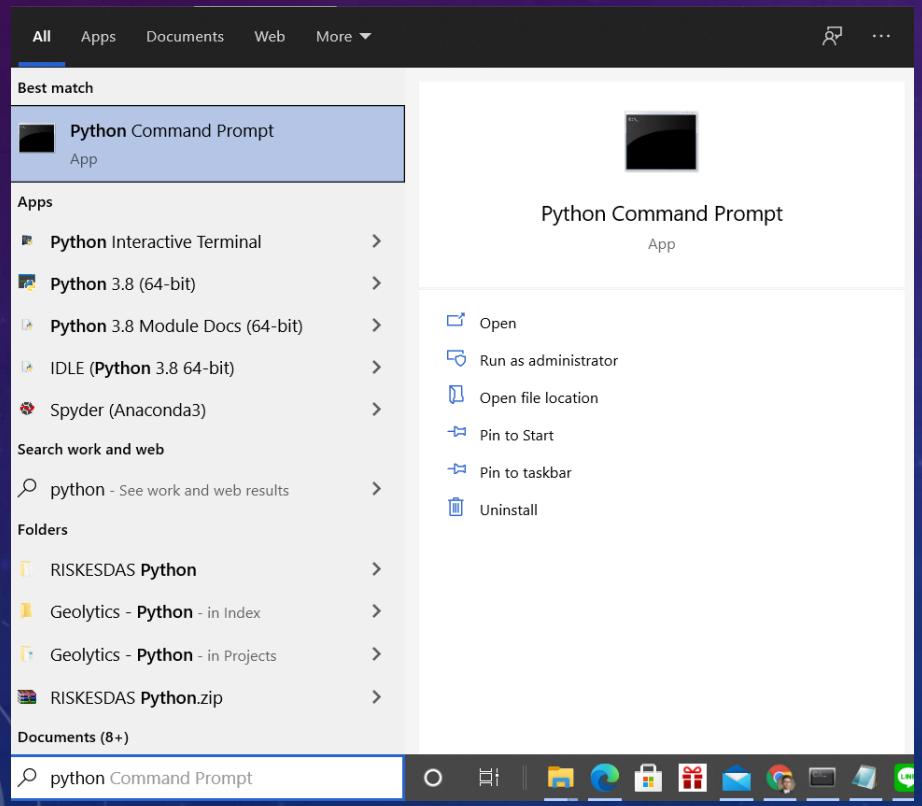


On cloud

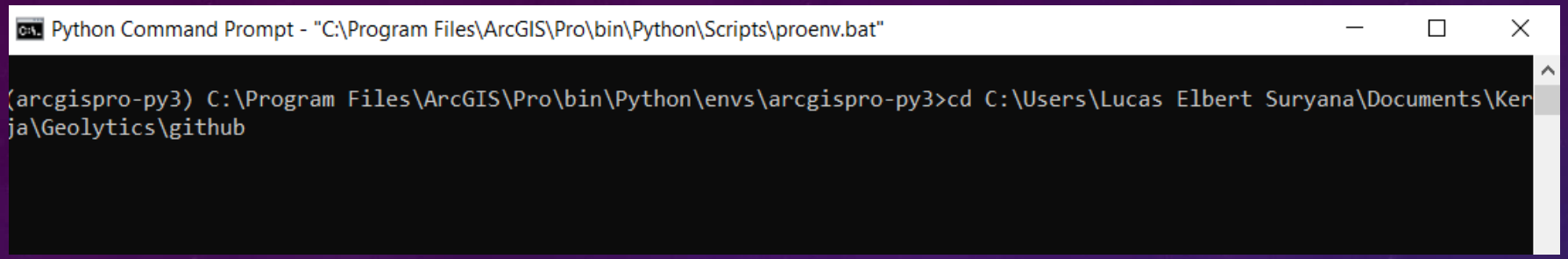


HOW TO RUN PYTHON – ON YOUR LOCAL

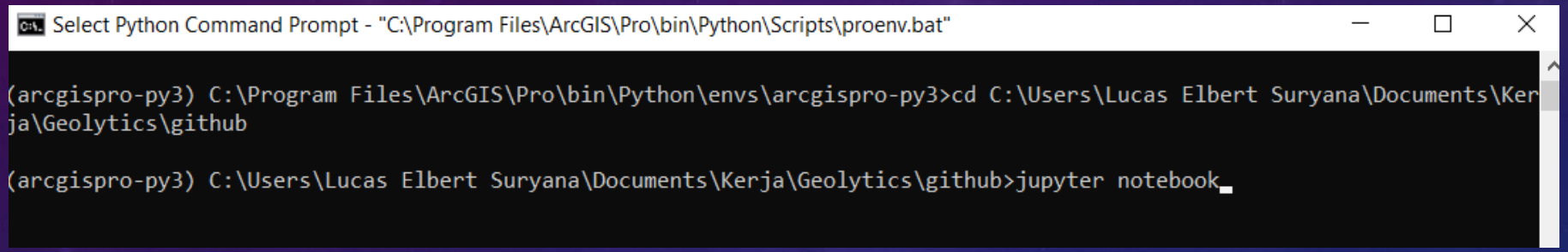
- Type Python Command Prompt on your search (make sure you have installed Arcgis Pro or your can use your local python installation, ex: anaconda jupyter notebook)



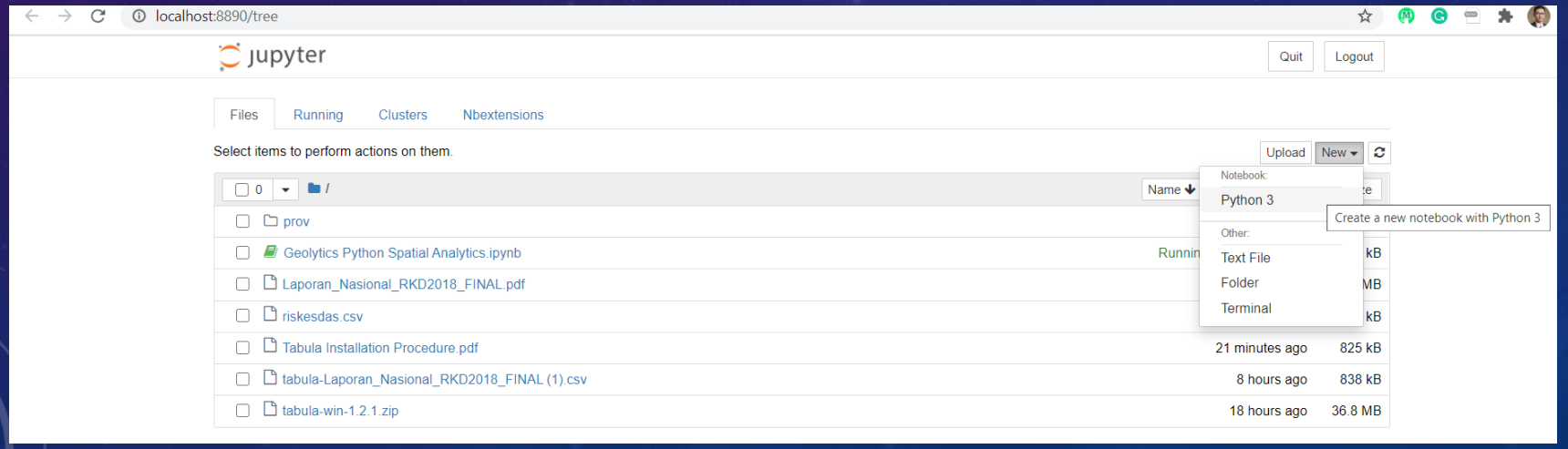
- **Set location by typing cd <your folder location>**



- **Type jupyter notebook**



- **Click new and set python 3**



- **Build your own code**

localhost:8890/notebooks/Geolytics%20Python%20Spatial%20Analytics.ipynb

jupyter Geolytics Python Spatial Analytics Last Checkpoint: 8 hours ago (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [1]:
```
import arcpy
import arcgis
```

In [4]:
```
# panggil library
import pandas as pd
# tentukan lokasi data riskesdas
dataset = 'riskesdas.csv'
# panggil dataset sebagai dataframe
data = pd.read_csv(dataset)
# lihat 10 data pertama
data.head()
```

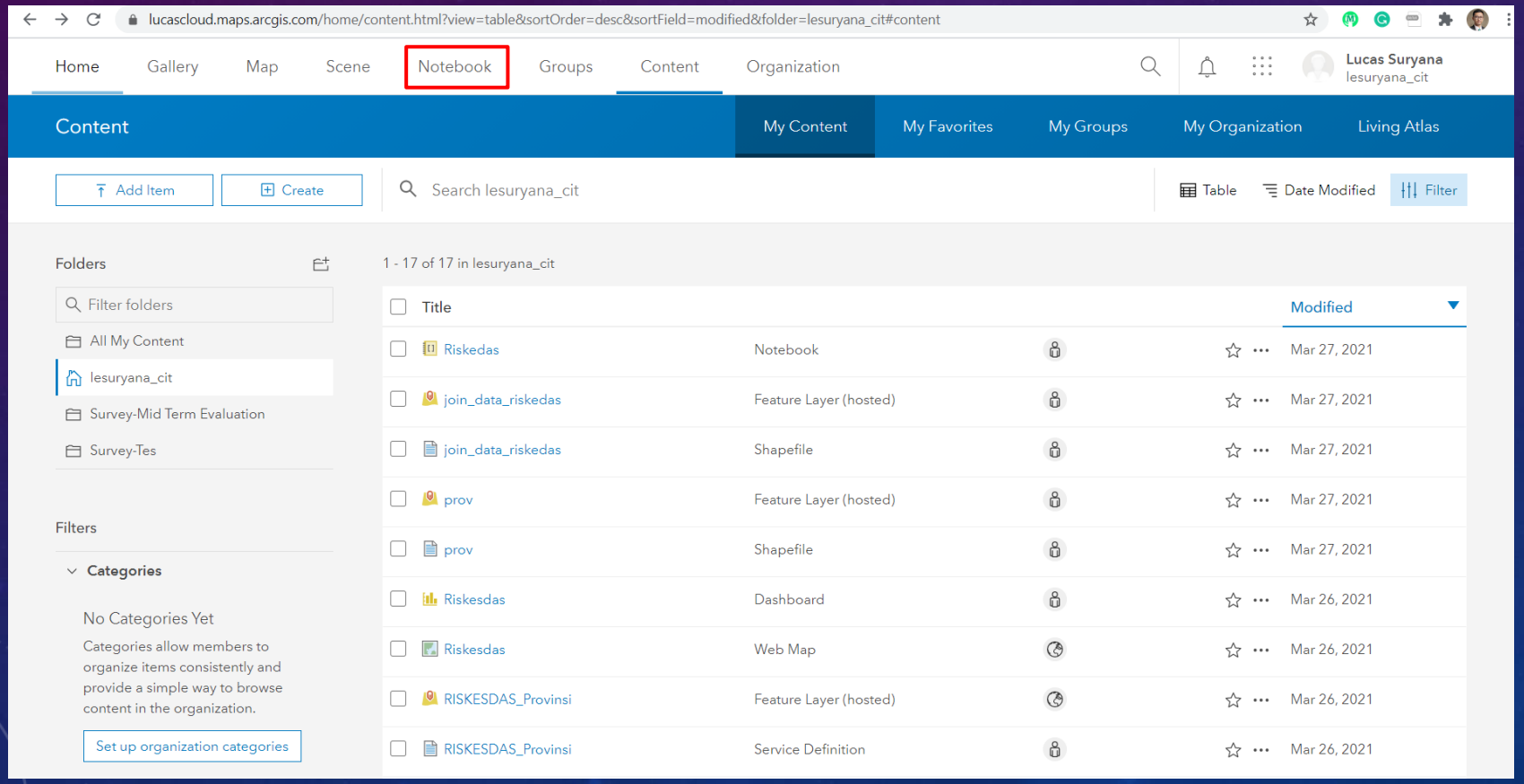
Out[4]:

	Provinsi	percent_mudah	CI_plus_std_mudah	CI_minus_std_mudah	percent_sulit	CI_plus_std_sulit	CI_minus_std_sulit	percent_sangat sulit	CI_plus_std_sangat
0	Aceh	29.8	27.9	31.7	41.8	39.6	44.1	28.4	
1	Sumatera Utara	38.8	37.1	40.4	36.7	35.0	38.5	24.5	
2	Sumatera Barat	35.1	32.9	37.4	38.1	35.8	40.4	26.8	
3	Riau	36.6	34.3	38.9	28.0	25.6	30.5	35.4	
4	Jambi	25.3	22.9	27.9	32.7	29.8	35.8	41.9	

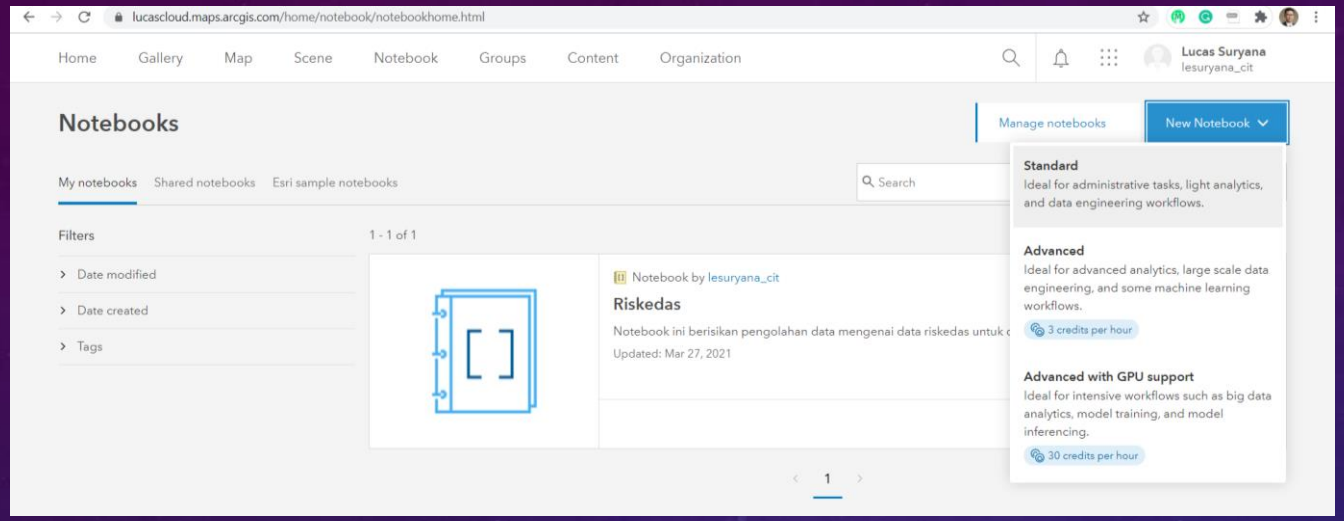
In [5]:
```
from arcgis.features import GeoAccessor
# Akses data batas kelurahan
location = 'C:\\Users\\Lucas Elbert Suryana\\Documents\\Kerja\\Geolytics\\Pelatihan\\prov\\prov.shp'
data = GeoAccessor.from_featureclass(location)
```

HOW TO RUN PYTHON – ON CLOUD

- Open AGOL' site and click Notebook tab (or you can use Google Colab instead)



- **Click New Notebook and select Standard**



- **Build your own code**