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Sub: EADC (Enterprise Application Development for Cloud)

Branch: CBA

Batch:61

-----PRACTICAL 18------

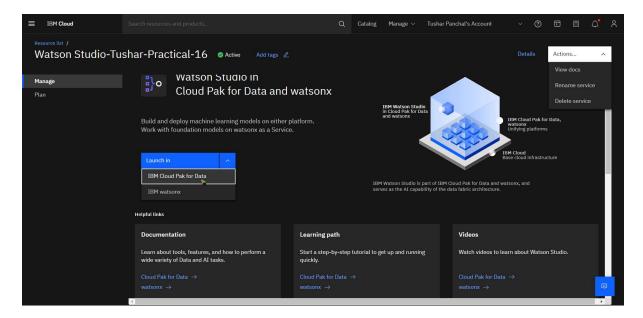
Assume you are working in a company where you need to extract useful insights from the data collected by organization. Demonstrate how to analyze large datasets with Python data science packages. We'll provide an example use case of analysing hourly air quality data provided by the EPA.

Perform the following Tasks:

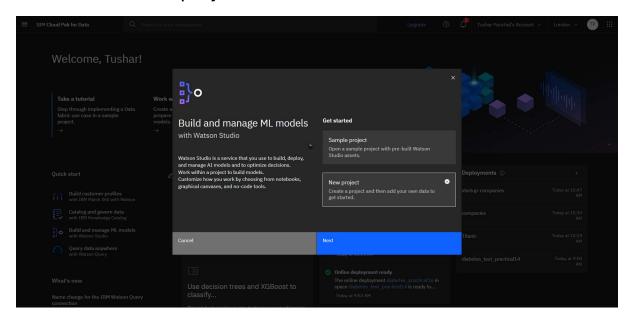
- 1. Create a Juypter notebook in Watson Studio.
- 2. Extract patterns from datasets using pandas.
- 3. Visualize data trends via matplotlib graphs.

>> Task 1: Create a Juypter notebook in Watson Studio.

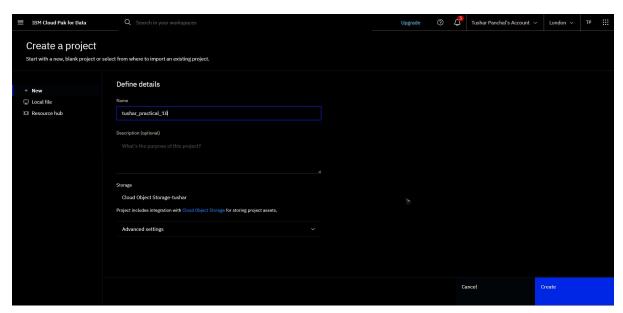
Navigate watson studio that we created in practical - 16 than click on launch in IBM cloud Pak for Data



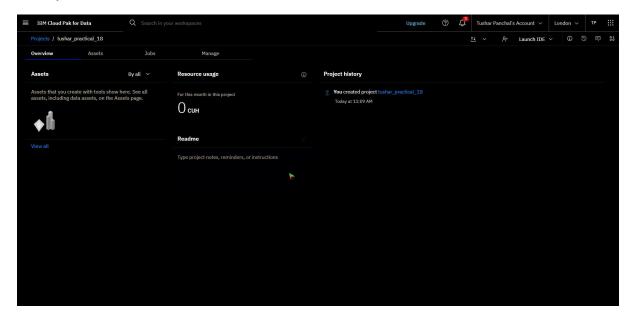
Now click on new project and click next



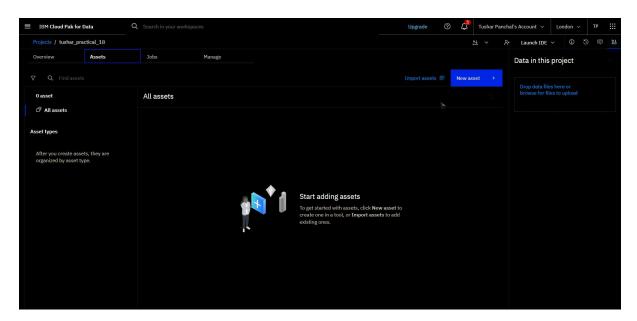
Give name of the new project and click on create



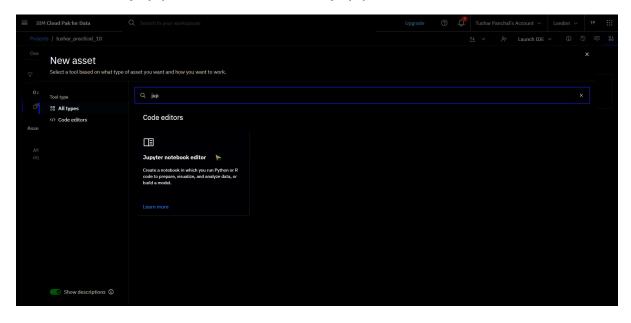
Its open this interface



Select assets then click on new asset

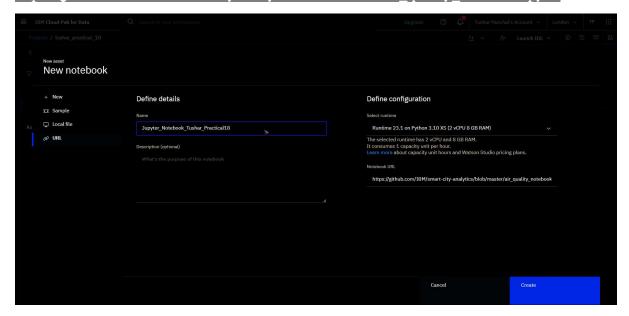


Now search jupyter than click on "jupyter notebook editor"

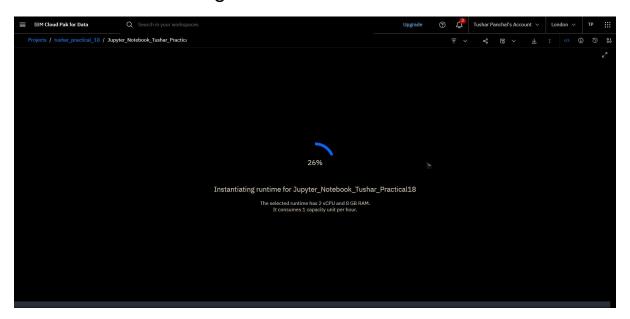


Now add name and select "URL" give below URI Then click on create

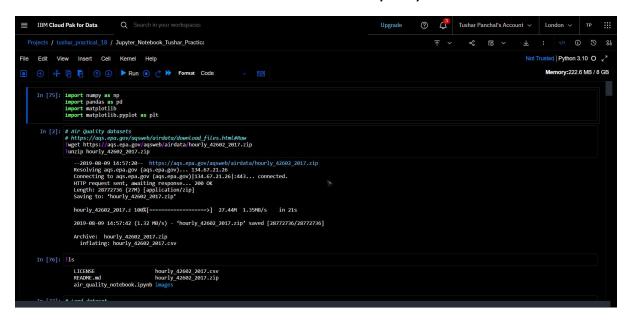
https://github.com/IBM/smart-city-analytics/blob/master/air quality notebook.ipynb



After create its loading the interface

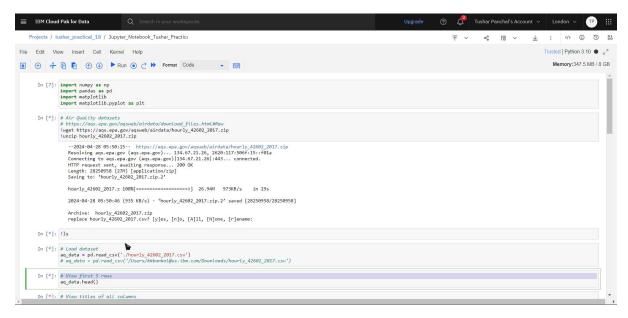


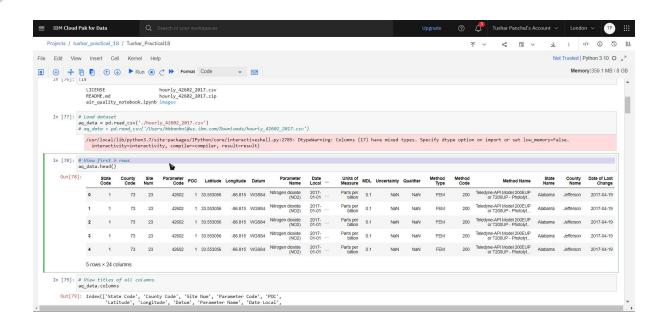
As we can see in below screenshot all query

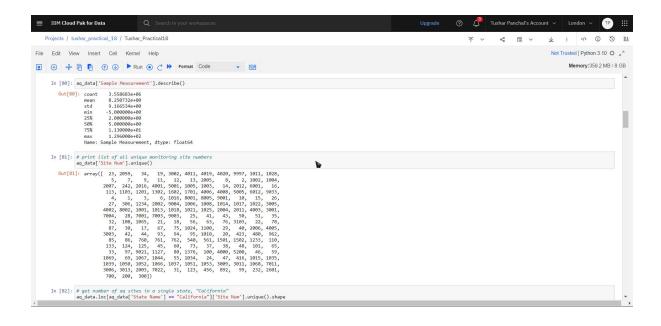


Now run one by one all codes

Task 2: Extract patterns from datasets using pandas.







Task 3: Visualize data trends via matplotlib graphs.

