

Data Analysis Basics With Python

```
status = filterByStatus ? study.status == filterByStatus : true  
matchStatus) {
```

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Uniqua

Cat/Data lover



Agenda

- Ice breaker
- what's data analysis
- Why python
- Tools

- Steps
- Live coding
- Data career
- Check out

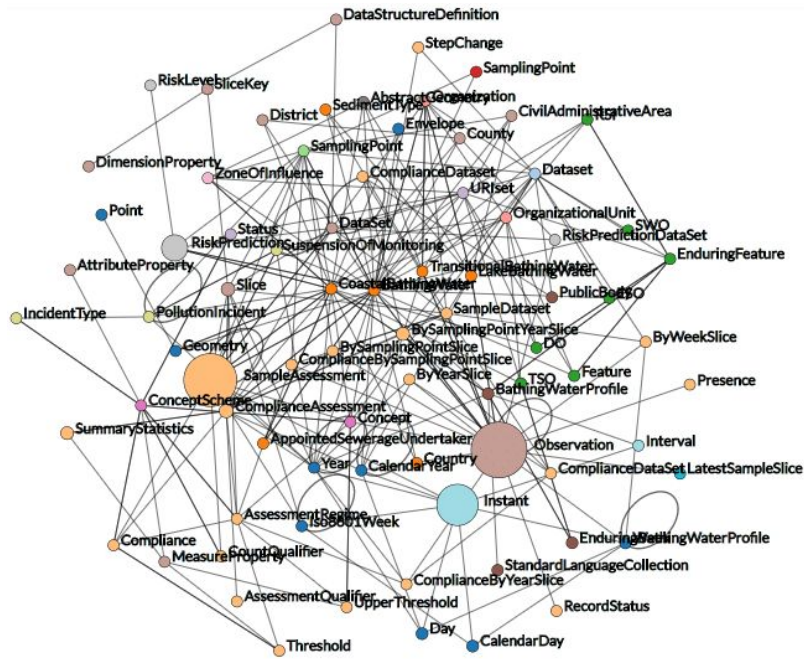
***Tell me abt ur fav
achievement happened on
ur life***



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What's Data Analysis ???

Data Analysis



Why Python

- Simple/Easy
- Trendy
- Used everywhere
- Big demand on jobs offers

Tools

- Anaconda
- Jupyter notebook
- Google colab



Data Analysis Steps

- Data collection
- Data cleaning
- EDA
- Data visualization
- Storytelling

Data Collection

- Google/Microsoft forms
- KoboToolbox
- Postman/Python
- Xml/Csv/Json...

Data Cleaning

- Remove errors & duplicates
- Fix missing values
- Correct formats (dates, numbers...)
- Filter important columns

Data Exploration (EDA)

- Understand distribution(spread)
- Detect trends
- Identify correlation
- Detect anomalies/outliers

Data Analysis/Modeling

- Descriptive → mean, sum...
- Diagnostic → Understand causes
- Predictive → forecast the future
- Prescriptive → Recommend an action

Visualisation/Storytelling

- Graphs
- Colors
- Dashboards
- Visuals



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Decision/Reporting



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Live Coding (Practical)



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Data Carrier+Open Space

abinoooooooooooo





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Officially Check out