

Data Analysis Basics

With Python

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



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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*



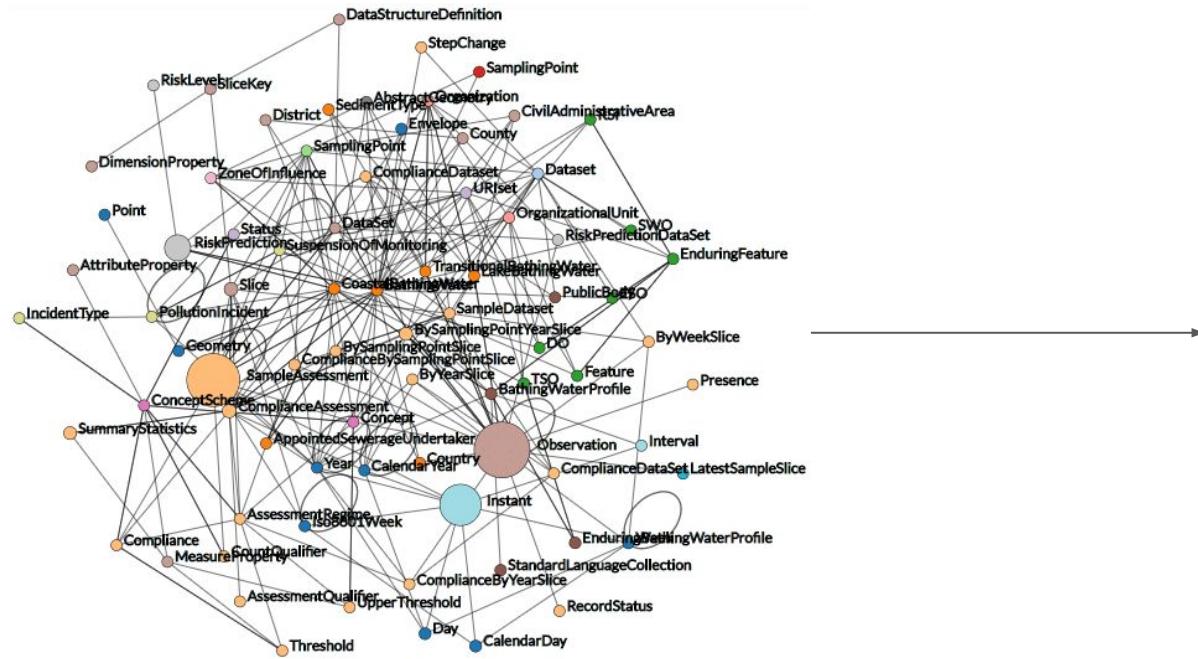
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What's Data Analysis ???

Data Analysis



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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 Carrer+Open Space

abinooooooooooooo





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Officially Check out