Data Cleaning

Friday, April 19, 2024 7:53 AM

1. Aim:

- Work with Git
  - Set-up GitHub repository
- Clean the dataset
- Functional programming
- Follow Pandas best practices

2. Things to Do:

- Check data types of features
- Check validity of values for each feature
- Check accuracy of values for each feature (extreme values)
- Check for duplicates

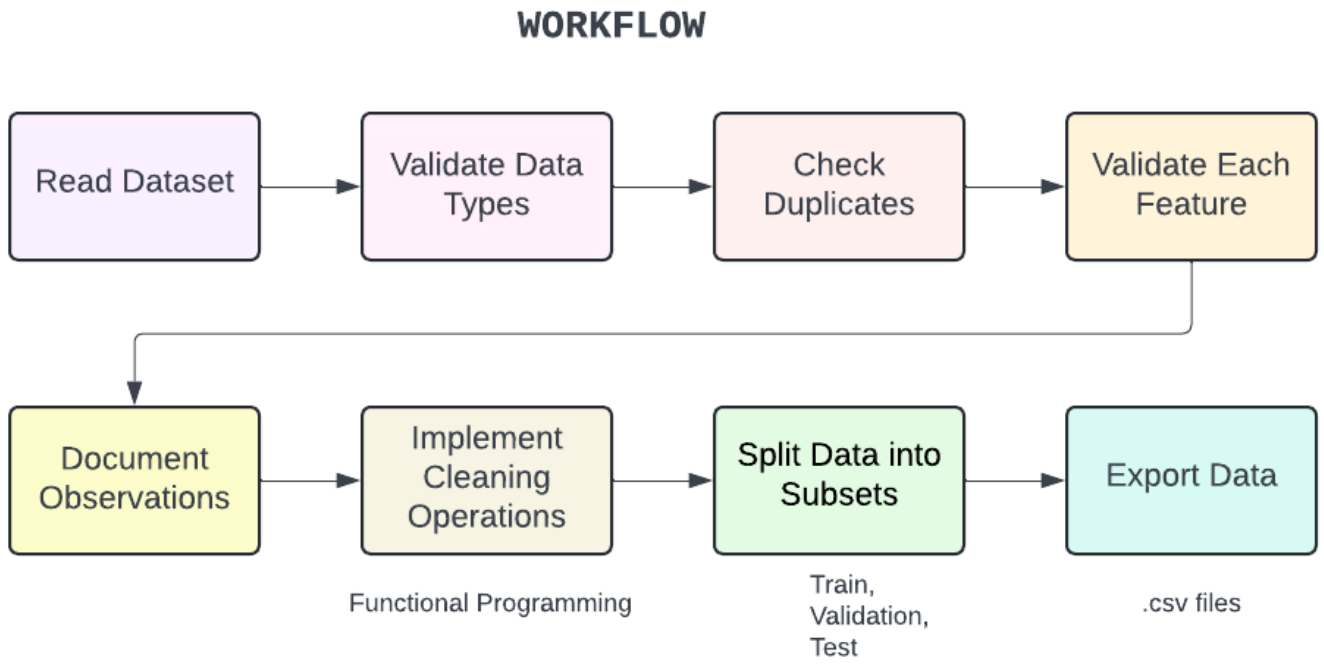
3. Things Not to Do:

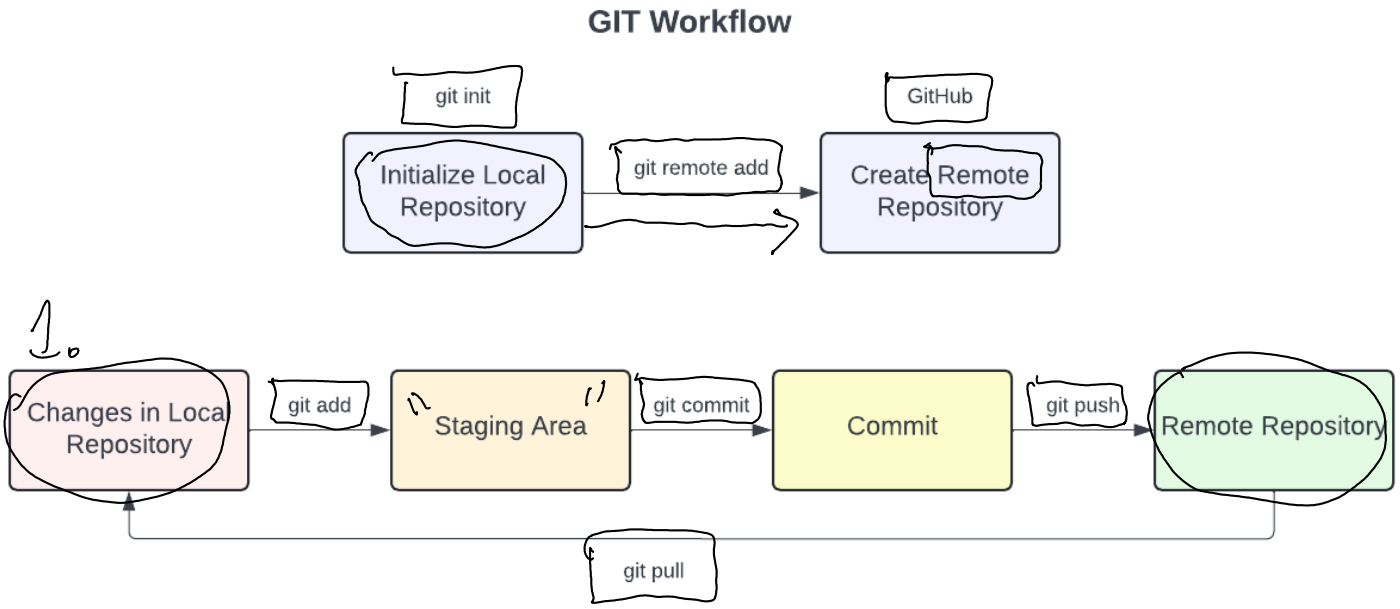
- Learn any patterns in the dataset
- Plots

4. Flow:

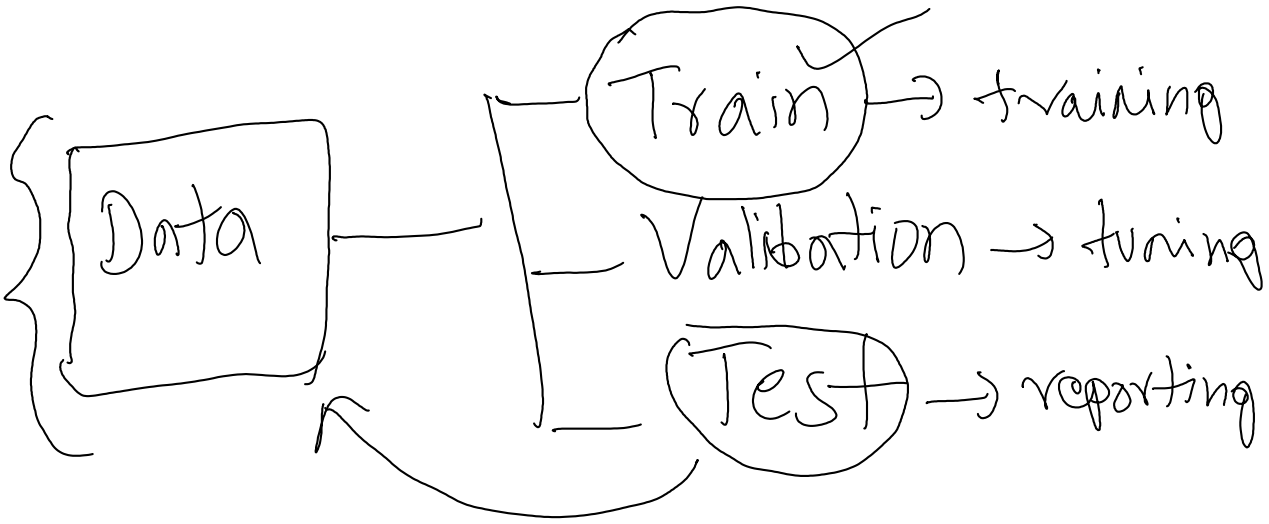
- Set-up GitHub repository
- Import libraries
- Read the dataset
- Preliminary Analysis:
  - Validate data types
  - Check for duplicates
- Detailed Analysis:
  - Check the validity and accuracy of each feature individually
- Document observations and changes to make
- Implement Data Cleaning function
- Split Cleaned Data into 3 subsets (X, y)
  - Train
  - Validation
  - Test
- Export subsets
  - Implement a function for exporting data

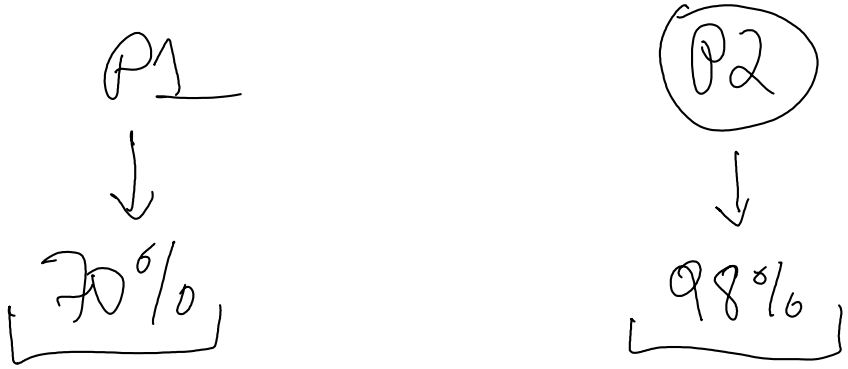
- Take *X* and *y* as parameters
- Join the objects and export as a *.csv* file
- Display data for completeness





5. Resources





"Snooping Bias"

name
"Jack" → 4 strip()
"Tom"
"Jack " → 5

Create } → assign()
Update

df → flights
↳ "Airline"

{df
.rename]
↳ "airline"