

In this video

- Dataset cleaning
 - Constant features
 - Duplicated features

- Other things to check
 - Duplicated rows
 - Check if dataset is shuffled

is_train	f0	f1	f2	f3	f4	f5
True	13	Н	1.2	1.2	Α	C
True	13	Н	36.6	36.6	В	Α
False	13	Н	0	0	Α	C
False	13	G	-14	-14	C	В

feature

is_train	fO	f1	f2	f3	f4	f5
True	13	Н	1.2	1.2	Α	C
True	13	Н	36.6	36.6	В	Α
False	13	Н	0	0	Α	C
False	13	G	-14	-14	С	В

traintest.nunique(axis=1) == 1

```
train test set F0 가
- > F0가
```

is_train	f0	f1	f2	f3	f4	f5
True	13	Н	1.2	1.2	Α	C
True	13	Н	36.6	36.6	В	Α
False	13	Н	0	0	Α	C
False	13	G	-14	-14	С	В

train.nunique(axis=1) == 1

train	test	

is_train	f0	f1	f2	f3	f4	f5
True	13	Н	1.2	1.2	Α	C
True	13	Н	36.6	36.6	В	Α
False	13	Н	0	0	Α	C
False	13	G	-14	-14	С	В

traintest.T.drop_duplicates()

f2	f3	feature

f4: A - > 1, B - > 2, C - > 3

f5: C->1, A->2, B->3

is_train	f0	f1	f2	f3	f4	f5
True	13	Н	1.2	1.2	Α	C
True	13	Н	36.6	36.6	В	Α
False	13	Н	0	0	Α	С
False	13	G	-14	-14	С	В

```
for f in categorical_feats:
    traintest[f] = raintest[f].factorize()
```

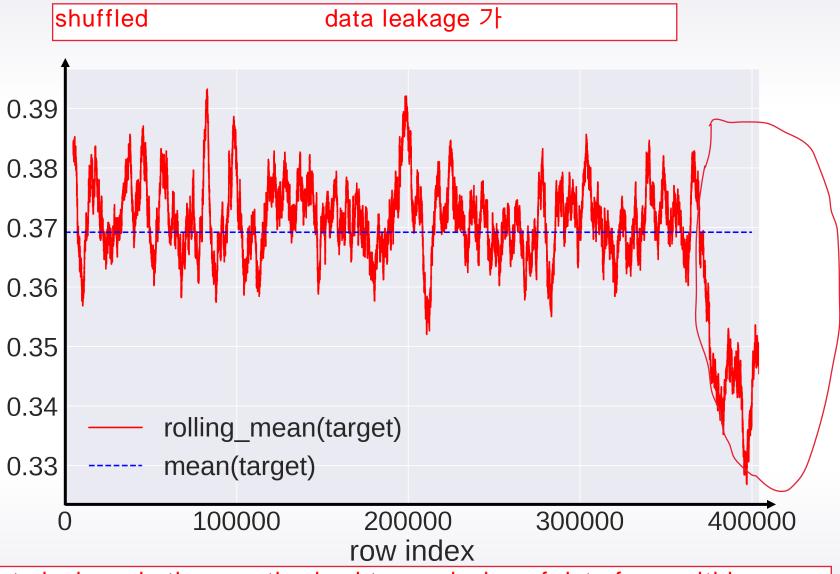
traintest.T.drop_duplicates()

Duplicated rows

f1	f2	f3	у
13	34r9	А	0
13	34r9	Α	1
13	34r9	Α	1

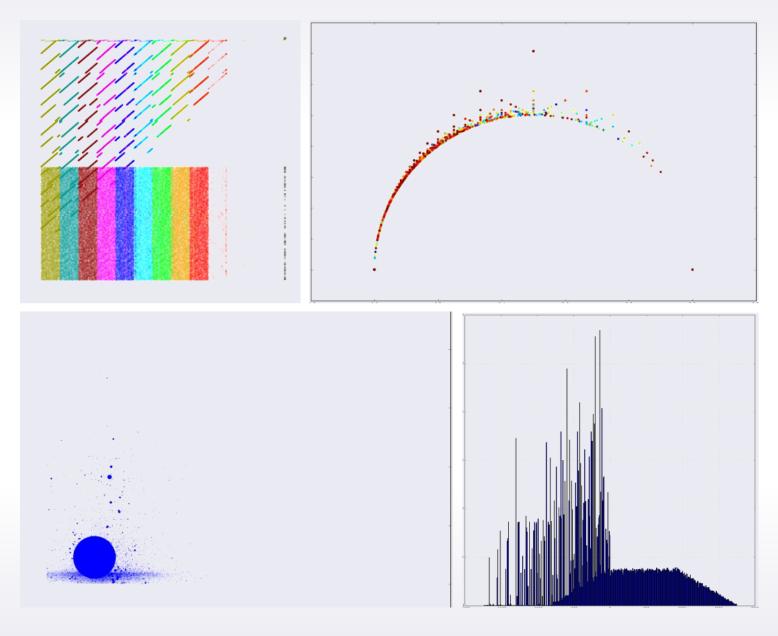
- Check if same rows have same label
- Find duplicated rows, understand why they are duplicated

Check if dataset is shuffled



Data leakage is the unauthorized transmission of data from within an organization to an external destination

Cool visualizations



EDA check list

- Get domain knowledge
- Check if the data is intuitive
- Understand how the data was generated
- Explore individual features
- Explore pairs and groups
- Clean features up
- Check for leaks! (later in this course)