

MI model quyidagi ketma ketliklar orqali yaratiladi:

- Data collection
- Data preprocessing (cleaning encoding, scaling)
- Algorithm selection
- Model training
- Evaluation
- Testing
- Deployment
- Monitoring

kutubxonalar yuklash uchun kodlar:

- pip install "pandos"

- %pip install "pd"

- !pip install "pd"

`df.head()` - boshidan 5 ta qatorni chiqarib beradi

`df.tail()` - oxiridan 5 ta qatorni chiqarib beradi

`df.head(nechta qator kerak bolsa shu son kiritiladi)` df.head(24), df.tail(12)

`df.nunique()` - har bir ustundagi classlar soni

`df['name']` - name ustunni chiqarib beradi

`df['id'].nunique()` id ustundagi classlar soni

`df[['id','name','airport_type']]` - bittadan ortiq

ustunlarni chiqarib beradi

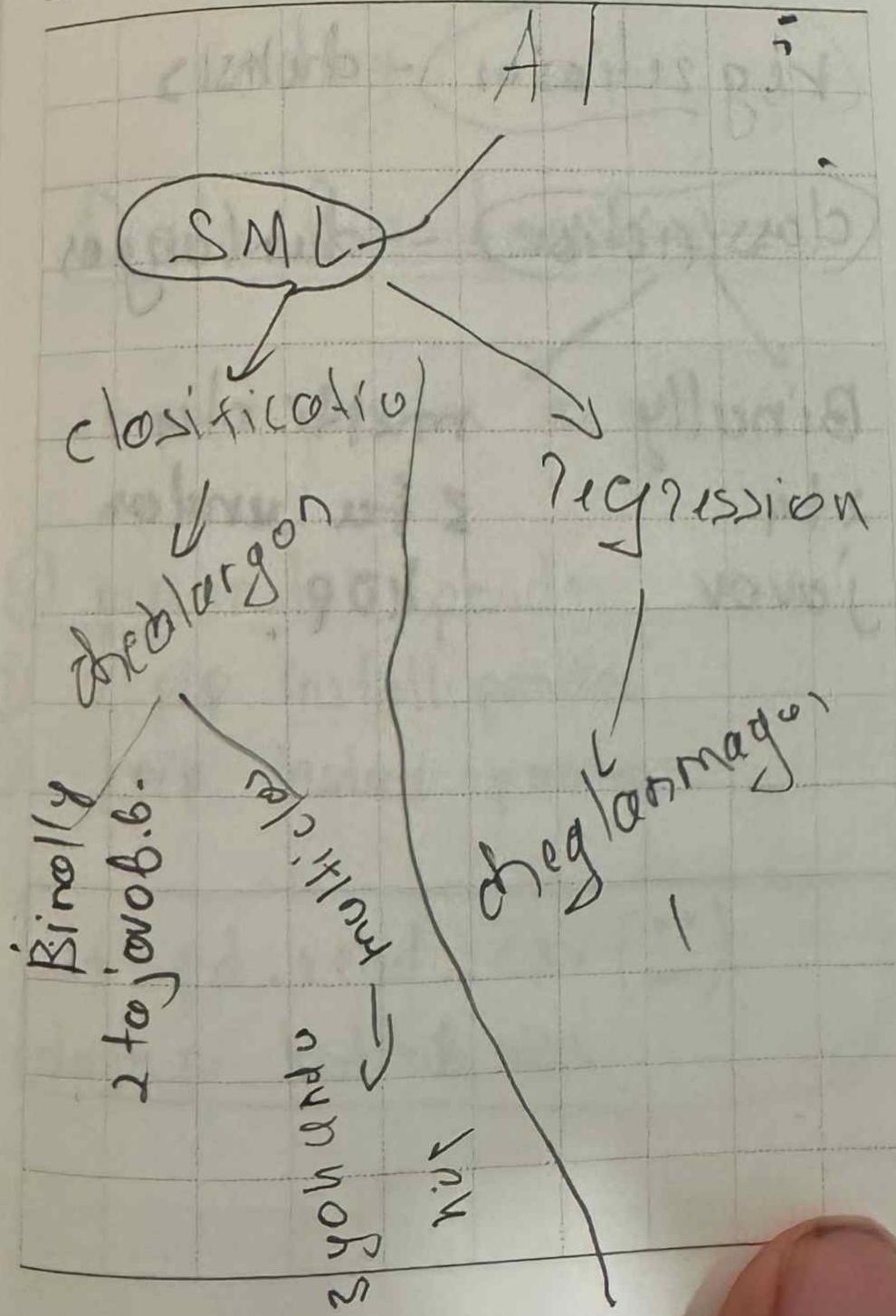
`df.info()` - data haqida umumiy malumot

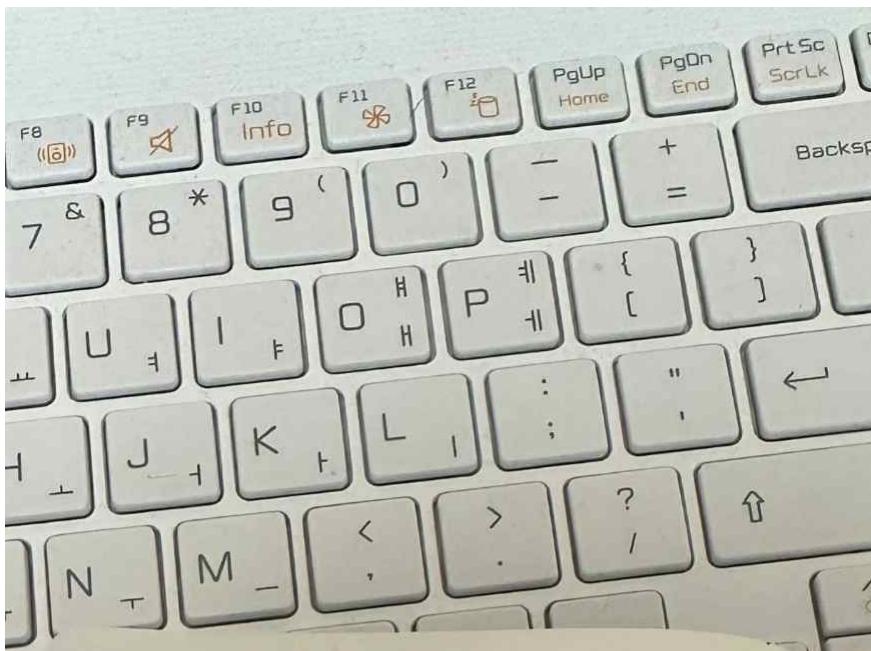
`df.isnull().sum()` - har bir ustun uchun tushurib qoldirilgan qiymatlar sonini chiqarib beradi

`df.isnull().any()` - har bir ustun uchun tushurib qoldirilgan qiymatlar bormi yoki yoq (True yoki False qaytaradi)

`if else` condition holatni tekshiradi

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
18 19 20 21 22 23 24 25 26 27 28 29 30 31





& df.head

df.head()

df.head(1)

Bashidən
Nüchiniş
Növbətəndə

df.tail()

Oxiqidən
Stahüssəll
di

classları nəqliyədən

df.unique()

Hər bir classın sonnun hətsəndədə

regression - durchs

classification - durchlanger

Binarily
2+q
jedovor

multi clas
z für undet
höp.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
18 19 20 21 22 23 24 25 26 27 28 29 30 31

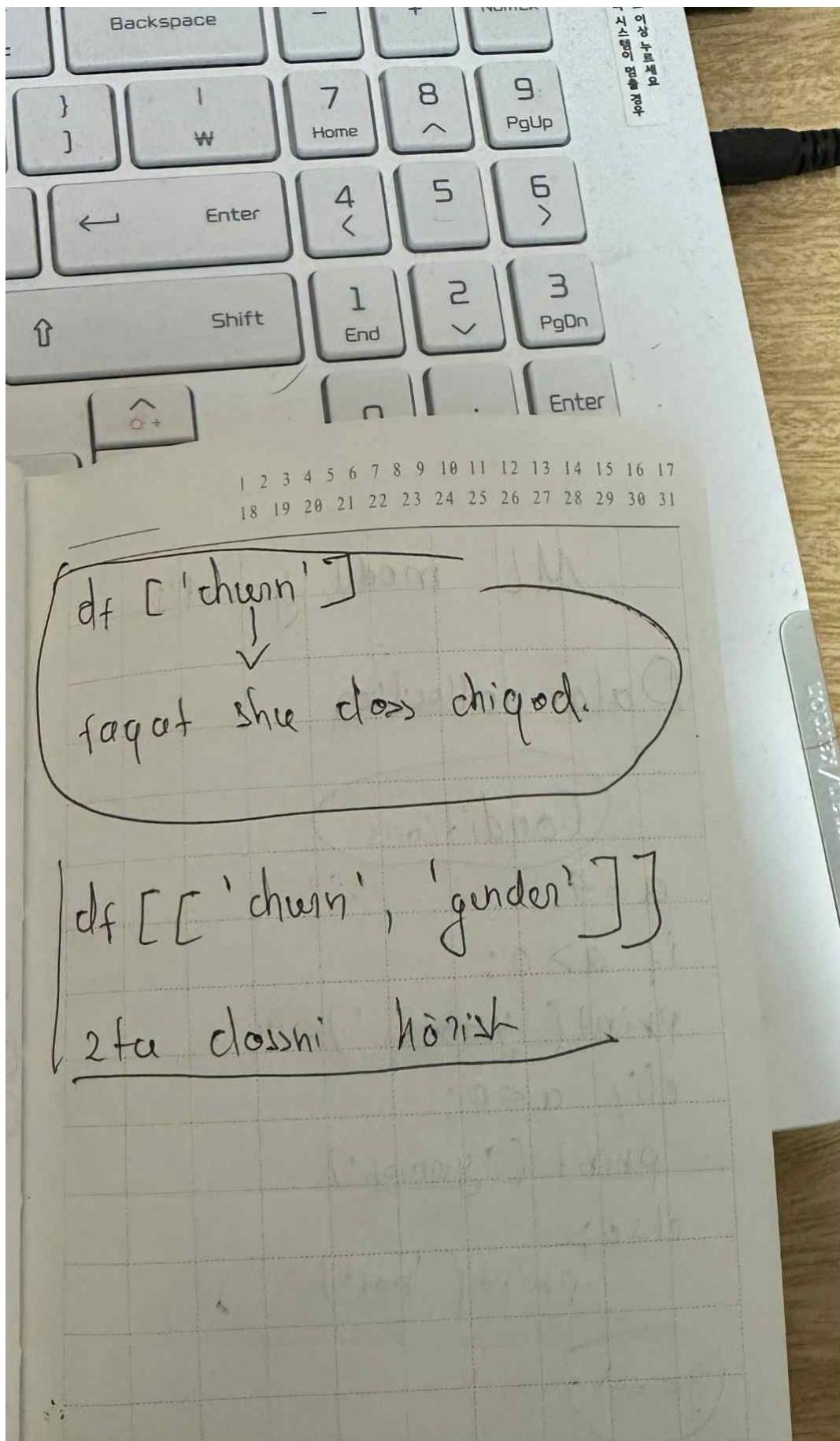
Coding

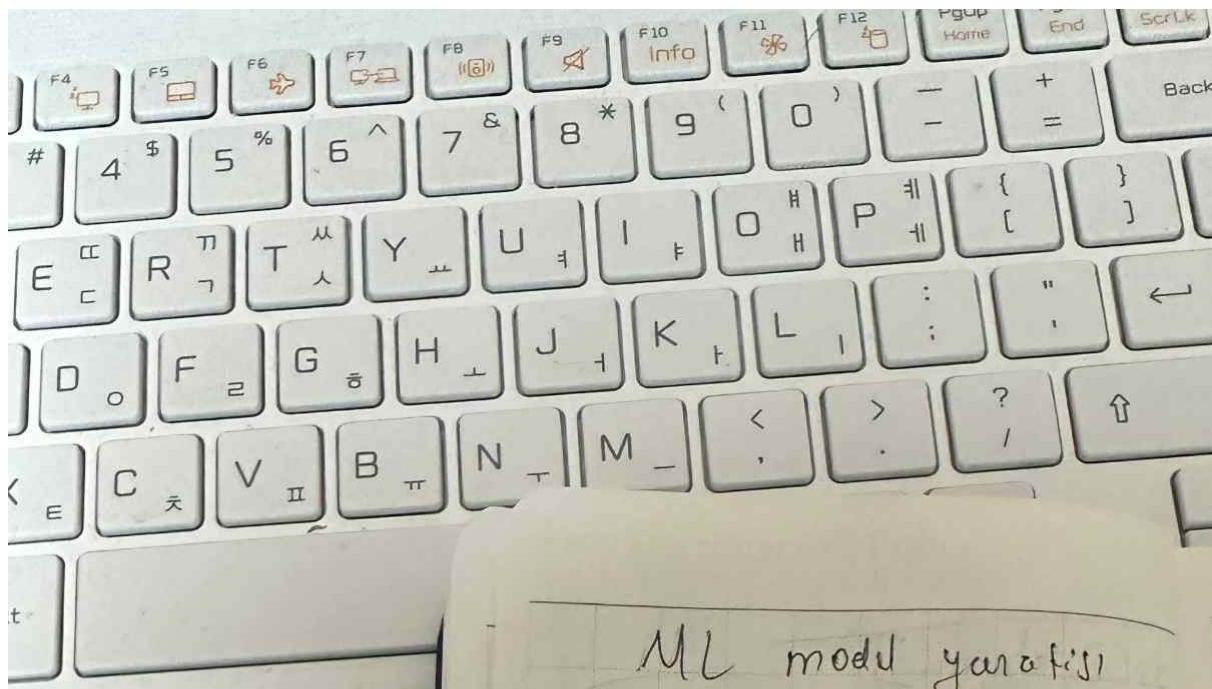
Data Bin tonishuv

import pandas as pd

- ① pip install pandas
- ② %pip install pandas
- ③ !pip install pandas

df = pd.read_csv('')
data ni hochirib olish





ML modul yaratish

Data collection

Conditions

a = 4

if a > 0:

print('yaxshi')

elif a < 0:

print('yomoh')

else:

print('hol')

yoxsh

