basic

July 31, 2024

Pandas tutorial

[ ]:
```
import numpy as np
import pandas as pd
```

[ ]:
```
dict = {
    "name":['harry','rohan','skillf'],
    "marks":[93,45,67],
    "city":["batala","rhydham","ankush"]
}
```

[ ]:
```
df = pd.DataFrame(dict)
```

[ ]:
```
df
```

[ ]:
```
     name  marks     city
0   harry     93   batala
1   rohan     45  rhydham
2  skillf     67   ankush
```

[ ]:
```
df.to_csv("friends.csv",index=False)
```

[ ]:
```
df.head(2)
```

[ ]:
```
    name  marks     city
0  harry     93   batala
1  rohan     45  rhydham
```

[ ]:
```
df.tail(2)
```

[ ]:
```
     name  marks     city
1   rohan     45  rhydham
2  skillf     67   ankush
```

[ ]:
```
df.describe()
```

[ ]:
```
           marks
count   3.000000
```

```
mean   68.333333
std    24.027762
min    45.000000
25%    56.000000
50%    67.000000
75%    80.000000
max    93.000000
```

[ ]:
```
harry = pd.read_csv("friends.csv")
```

[ ]:
```
harry
```

[ ]:
```
     name  speed     city
0   harry     93   batala
1   rohan     45  rhydham
2  skillf     67   ankush
```

[ ]:
```
harry['speed']
```

[ ]:
```
0    93
1    45
2    67
Name: speed, dtype: int64
```

[ ]:
```
harry['speed'][0] = 50
```

```
/tmp/ipykernel_2597/1463362376.py:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  harry['speed'][0] = 50
```

[ ]:
```
harry
```

[ ]:
```
     name  speed     city
0   harry     50   batala
1   rohan     45  rhydham
2  skillf     67   ankush
```

[ ]:
```
harry.to_csv("friends.csv",index=False)
```

[ ]:
```
harry.index = ['first','second','third']
```

[ ]:
```
harry
```

[ ]:

	name	speed	city
first	harry	50	batala
second	rohan	45	rhydham
third	skillf	67	ankush

[ ]: