

Jawan Tech Pakistan

#Data science course

#Assignment no.2

Data set Pokémon

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PANDAS #ASSIGNMENT_02 POKEMON DATA SET

```
In [11]: # NAME_AHSAN_JABBAR
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import pandas as pd
data = pd.read_csv("Pokemon.csv")
```

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```
In [12]: HP_mean = data["HP"].mean()
def set_HP (val):
    if val < HP_mean:
        return "HP Low"
    else:
        return "HP High"
```

```
In [13]: data["HP_High_Low"] = data["HP"].apply(set_HP)
data
```

Out[13]:

	#	Name	Type 1	Type 2	Total	HP	Attack	Defense	Sp. Atk	Sp. Def	Speed	Generation	Legendary	HP_High_Low
0	1	Bulbasaur	Grass	Poison	318	45	49	49	65	65	45	1	False	HP Low
1	2	Ivysaur	Grass	Poison	405	60	62	63	80	80	60	1	False	HP Low
2	3	Venusaur	Grass	Poison	525	80	82	83	100	100	80	1	False	HP High
3	3	VenusaurMega Venusaur	Grass	Poison	625	80	100	123	122	120	80	1	False	HP High
4	4	Charmander	Fire	NaN	309	39	52	43	60	50	65	1	False	HP Low
...
795	719	Diancie	Rock	Fairy	600	50	100	150	100	150	50	6	True	HP Low
796	719	DiancieMega Diancie	Rock	Fairy	700	50	160	110	160	110	110	6	True	HP Low
797	720	HoopahHoop Confined	Psychic	Ghost	600	80	110	60	150	130	70	6	True	HP High
798	720	HoopahHoop Unbound	Psychic	Dark	680	80	160	60	170	130	80	6	True	HP High
799	721	Volcanion	Fire	Water	600	80	110	120	130	90	70	6	True	HP High

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In [5]:

```
Speed_mean = data["Speed"].mean()
def set_Speed (val):
    if val < Speed_mean:
        return "Speed Low"
    else :
        return "Speed High"
```

In [9]:

```
data["Speed_High_Low"] = data["Speed"].apply(set_Speed)
data
```

Out[9]:

	#	Name	Type 1	Type 2	Total	HP	Attack	Defense	Sp. Atk	Sp. Def	Speed	Generation	Legendary	HP_High_low	Speed_High_Low
0	1	Bulbasaur	Grass	Poison	318	45	49	49	65	65	45	1	False	HP Low	Speed Low
1	2	Ivysaur	Grass	Poison	405	60	62	63	80	80	60	1	False	HP Low	Speed Low
2	3	Venusaur	Grass	Poison	525	80	82	83	100	100	80	1	False	HP High	Speed High
3	3	VenusaurMega Venusaur	Grass	Poison	625	80	100	123	122	120	80	1	False	HP High	Speed High
4	4	Charmander	Fire	NaN	309	39	52	43	60	50	65	1	False	HP Low	Speed Low
...
795	719	Diancie	Rock	Fairy	600	50	100	150	100	150	50	6	True	HP Low	Speed Low
796	719	DiancieMega Diancie	Rock	Fairy	700	50	160	110	160	110	110	6	True	HP Low	Speed High
797	720	HoopaHoopa Confined	Psychic	Ghost	600	80	110	60	150	130	70	6	True	HP High	Speed High
798	720	HoopaHoopa Unbound	Psychic	Dark	680	80	160	60	170	130	80	6	True	HP High	Speed High
799	721	Volcanion	Fire	Water	600	80	110	120	130	90	70	6	True	HP High	Speed High

800 rows x 15 columns