

POKEMON

analysis



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ABOUT ME



I am an undergraduate student at Data Science UPN Veteran Jawa Timur. I am currently in my 6th semester and doing an internship at PT Semen Indonesia (Persero) Tbk as a Mining Data Scientist. I have interests in data scientist, data analyst, and data engineer.

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DESCRIPTION OF THE PROBLEM TO BE DISCUSSED

The problem?

We must find insights from
existing pokemon data.

DATA UNDERSTANDING

Variable Name	Description	Data Type
#	Number ID in the Pokedex	Numeric
Name	Name of the Pokemon	String
Type 1	Primary type	Categorical
Type 2	Second type	Categorical
Total	Sum of all the base stats (Health point, attack, defense, special attack, special defense, and speed)	Numeric
HP	Base health points	Numeric
Attack	Base attack	Numeric

DATA UNDERSTANDING

Variable Name	Description	Data Type
Defense	Base defense	Numeric
Sp Atk	Base special attack	Numeric
Sp Def	Base special defense	Numeric
Speed	Base speed	Numeric
Generation	Number of the generation when the pokemon was introduced	Numeric
Legendary	Boolean that indicated if the pokemon is legendary or not	Boolean

INSIGHT FROM THE DATA

There are 386 Pokemon that don't have a second type

Name	0
type_1	0
type_2	386

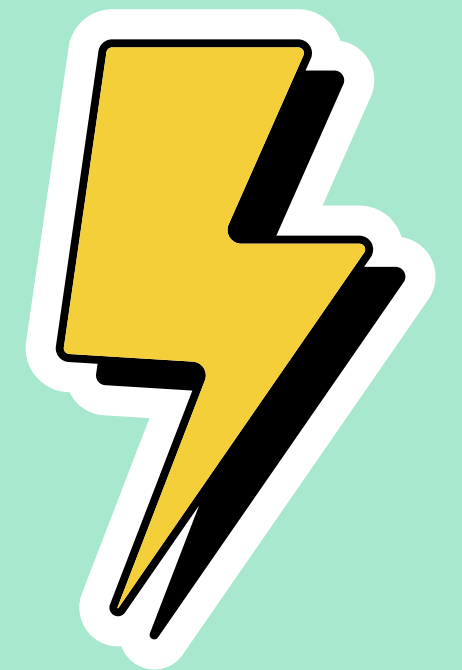
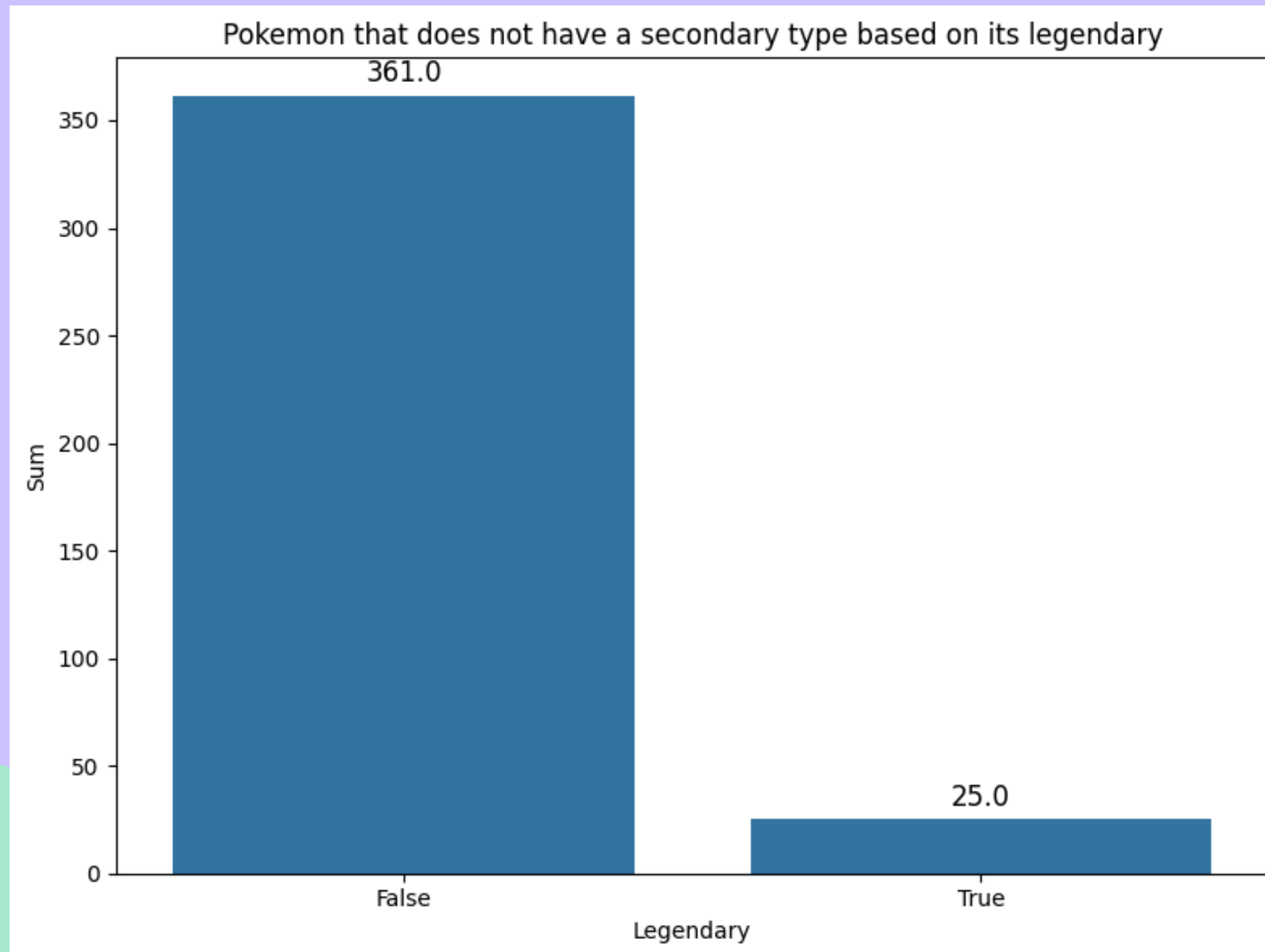
there are 18 types of pokemon, namely water, normal, grass, insect, psychic, fire, electricity, stone, dragon, earth, ghost, dark, poison, steel, fight, ice, fairy, and flying.

type_1		type_2	
Water	112	Flying	97
Normal	98	Ground	35
Grass	70	Poison	34
Bug	69	Psychic	33
Psychic	57	Fighting	26
Fire	52	Grass	25
Electric	44	Fairy	23
Rock	44	Steel	22
Dragon	32	Dark	20
Ground	32	Dragon	18
Ghost	32	Water	14
Dark	31	Ghost	14
Poison	28	Ice	14
Steel	27	Rock	14
Fighting	27	Fire	12
Ice	24	Electric	6
Fairy	17	Normal	4
Flying	4	Bug	3



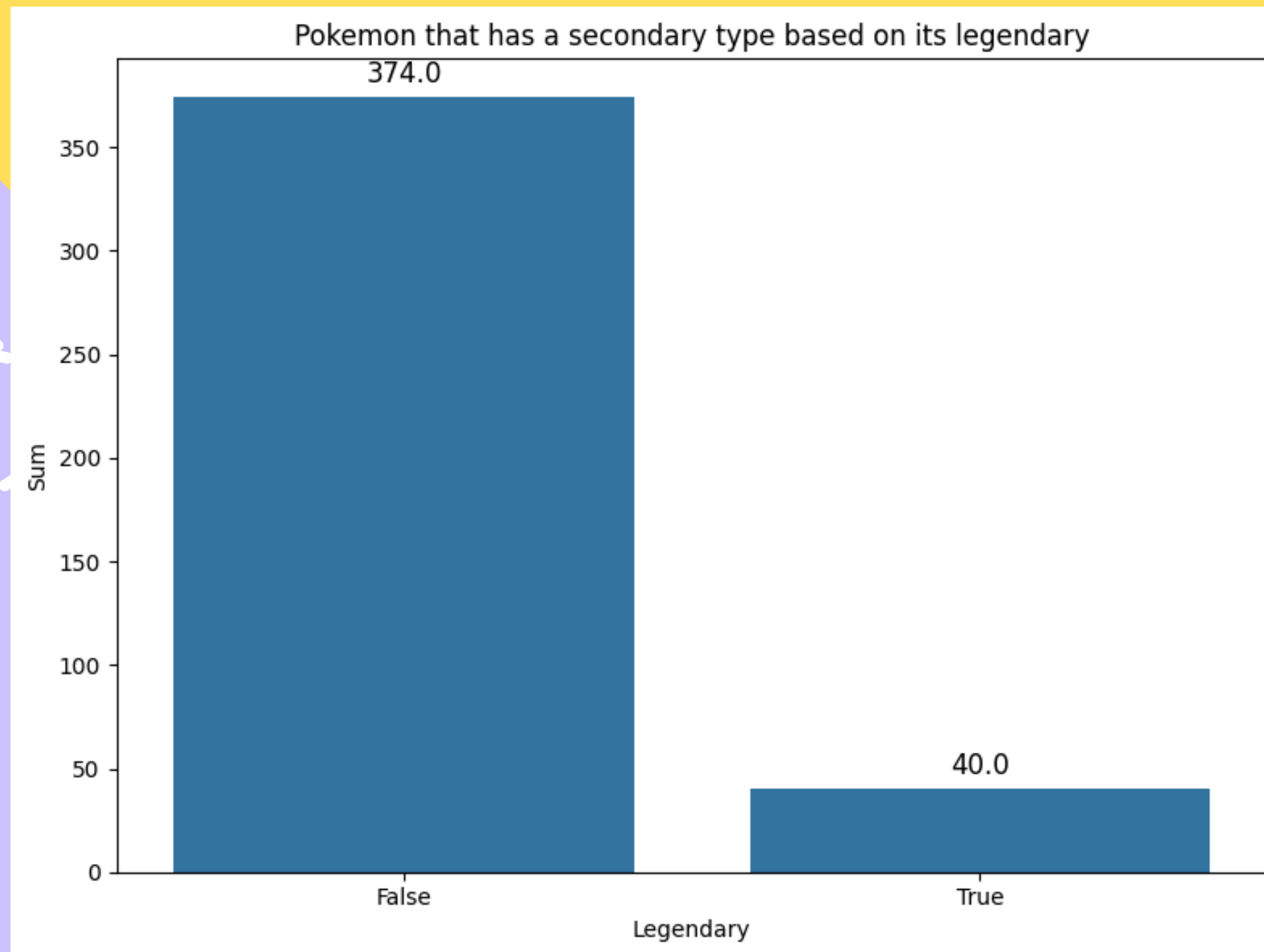
INSIGHT FROM THE DATA

Pokemon that don't has a secondary type are mostly classified as non-legendary Pokemon.



INSIGHT FROM THE DATA

Pokemon that has a secondary type are mostly classified as non-legendary Pokemon too.

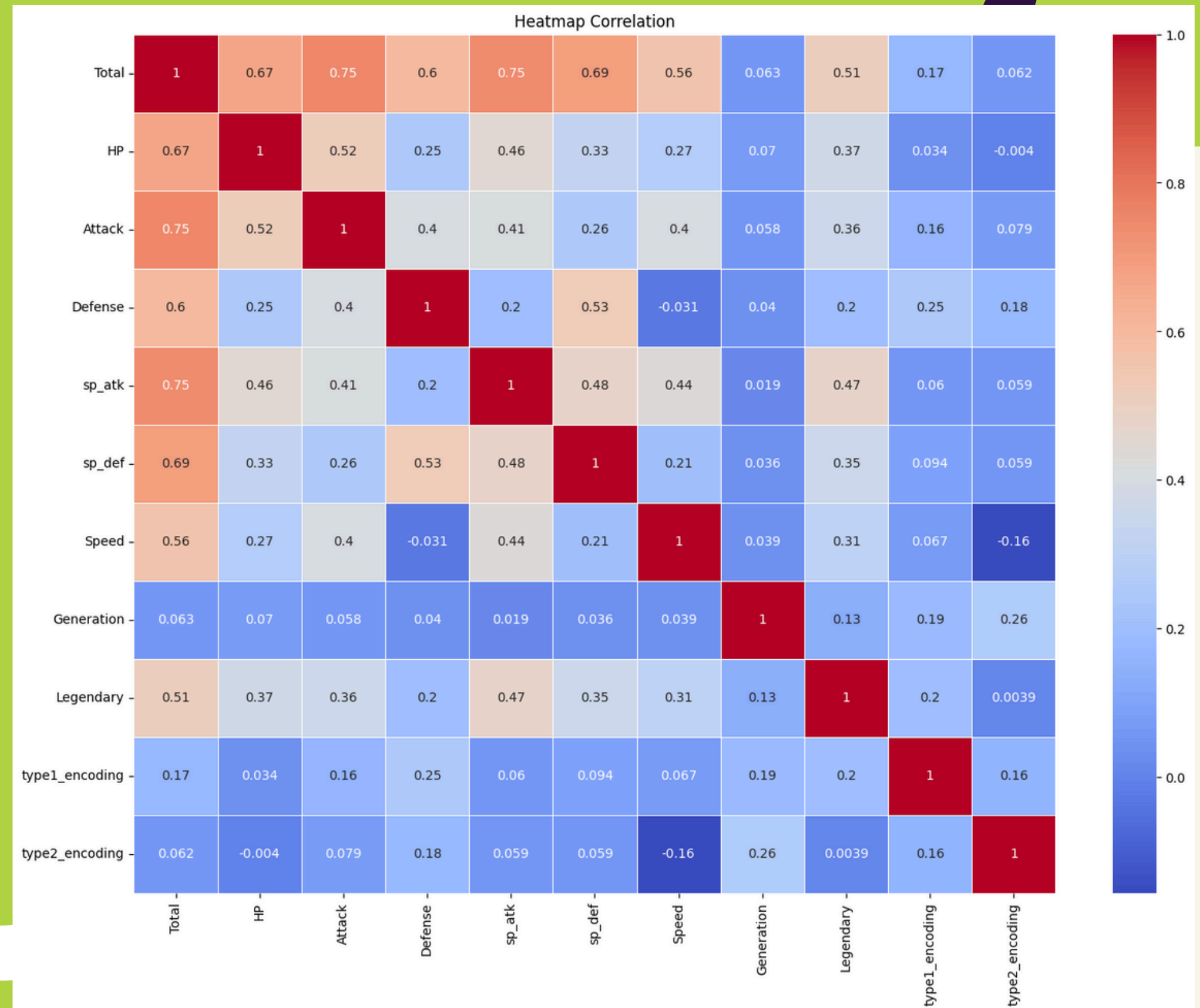


!MAIN POINT!

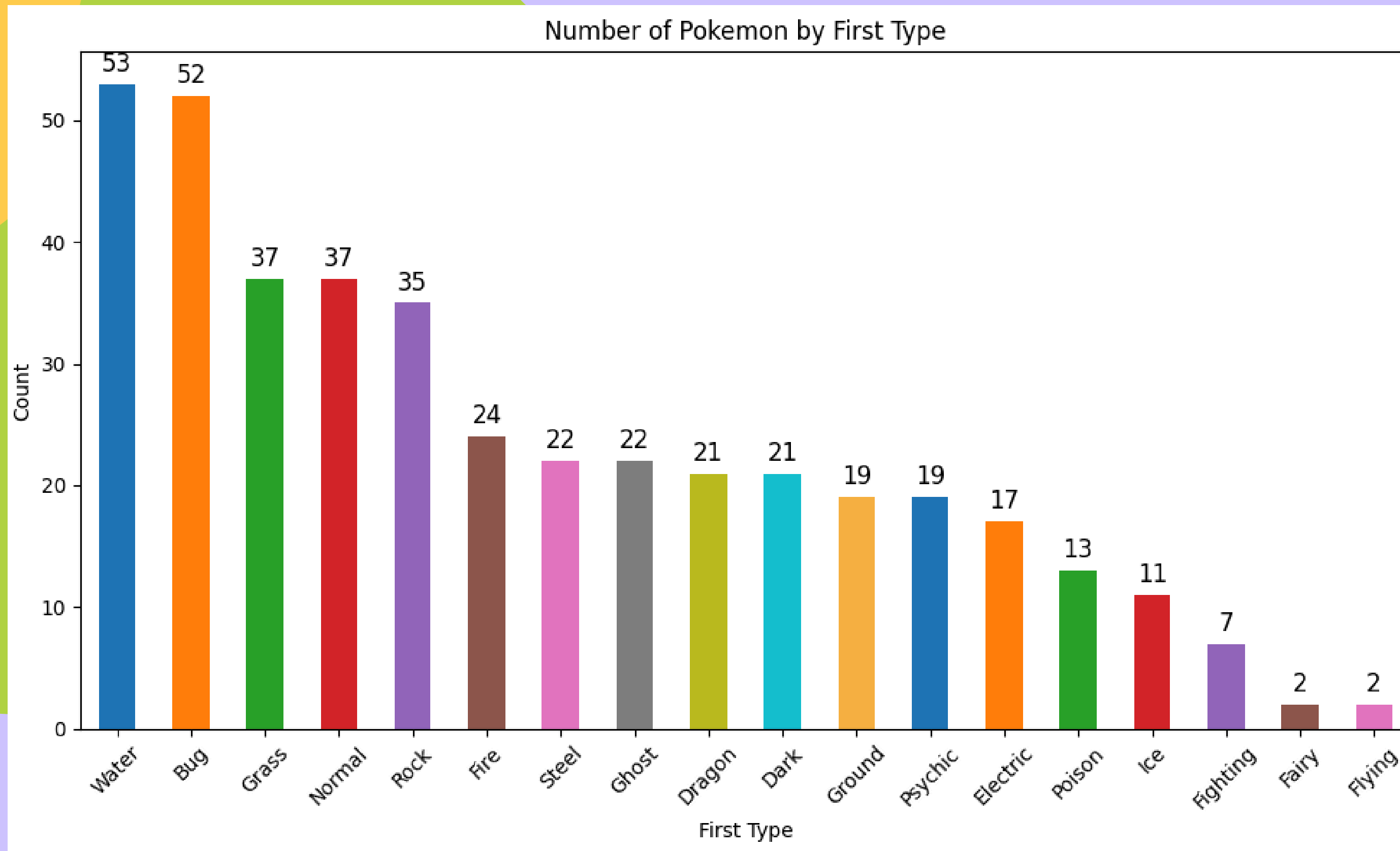
The majority of the data are not legendary pokemon

INSIGHT FROM THE DATA

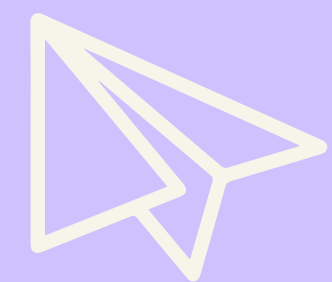
Correlation between Total, HP, attack, defense, sp_atk, sp_def, speed, and legendary is positive. It means that if one of them increases, the other variable will also increase.



INSIGHT FROM THE DATA

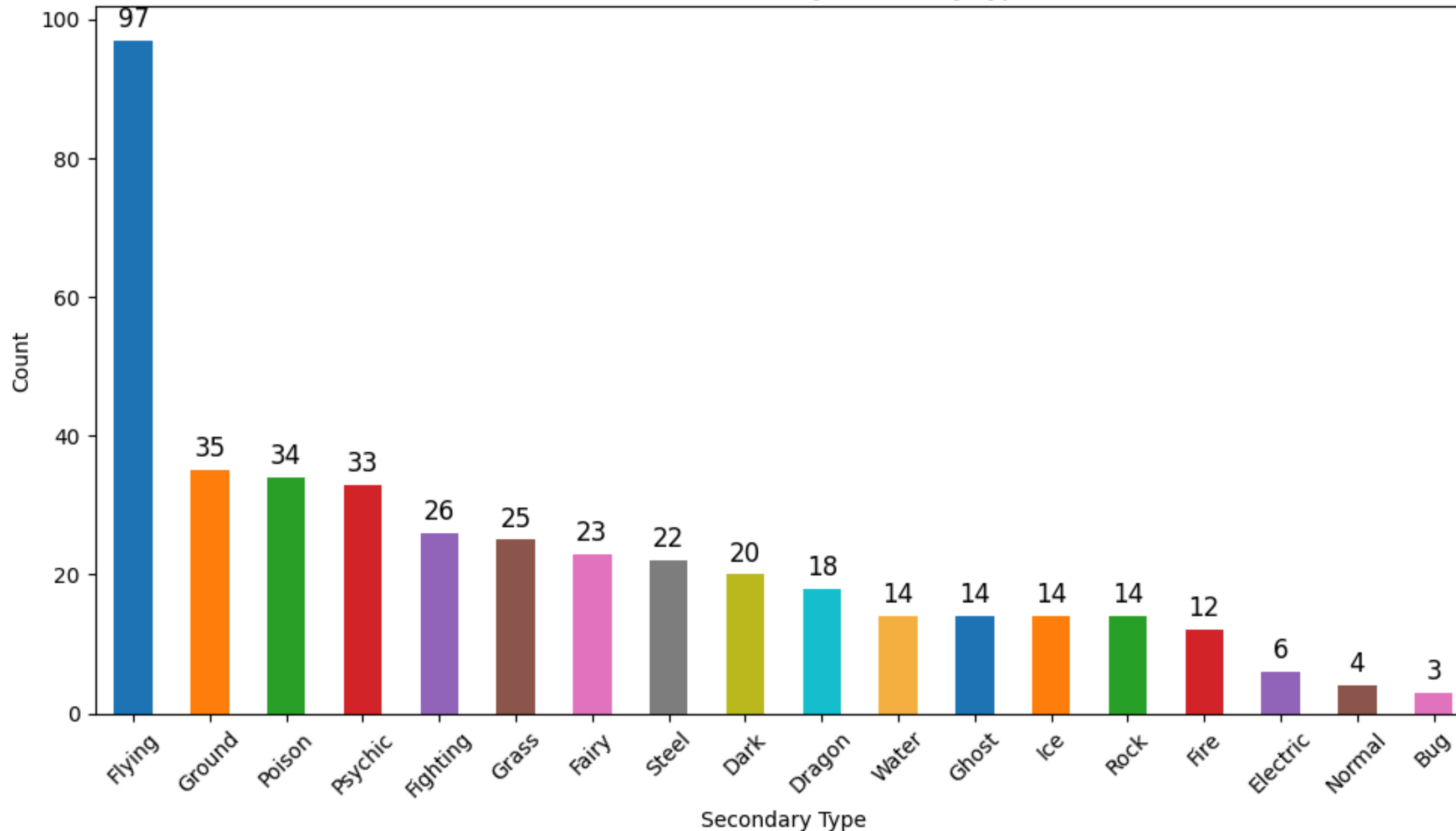


Referring to the picture on the side, **water** as the most first type of Pokemon and **flying** as the least first type of Pokemon.



INSIGHT FROM THE DATA

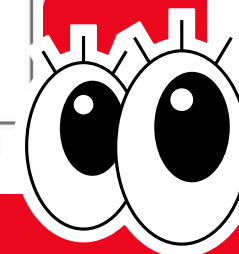
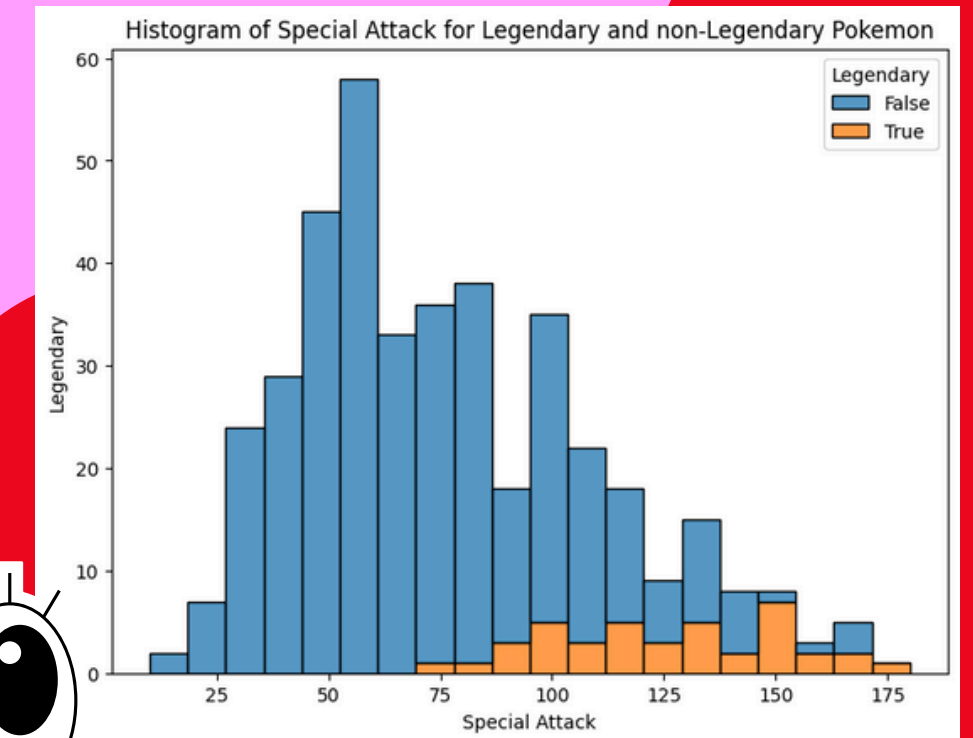
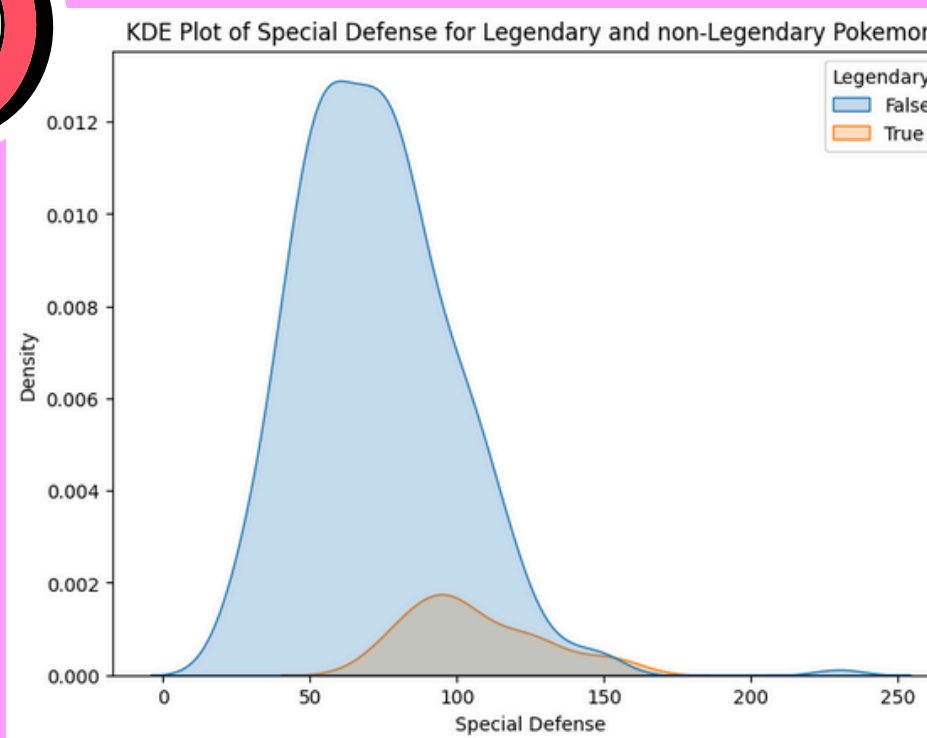
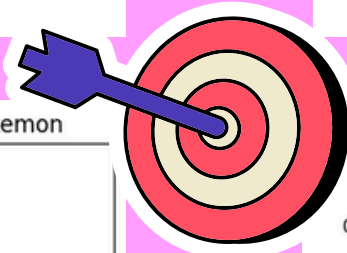
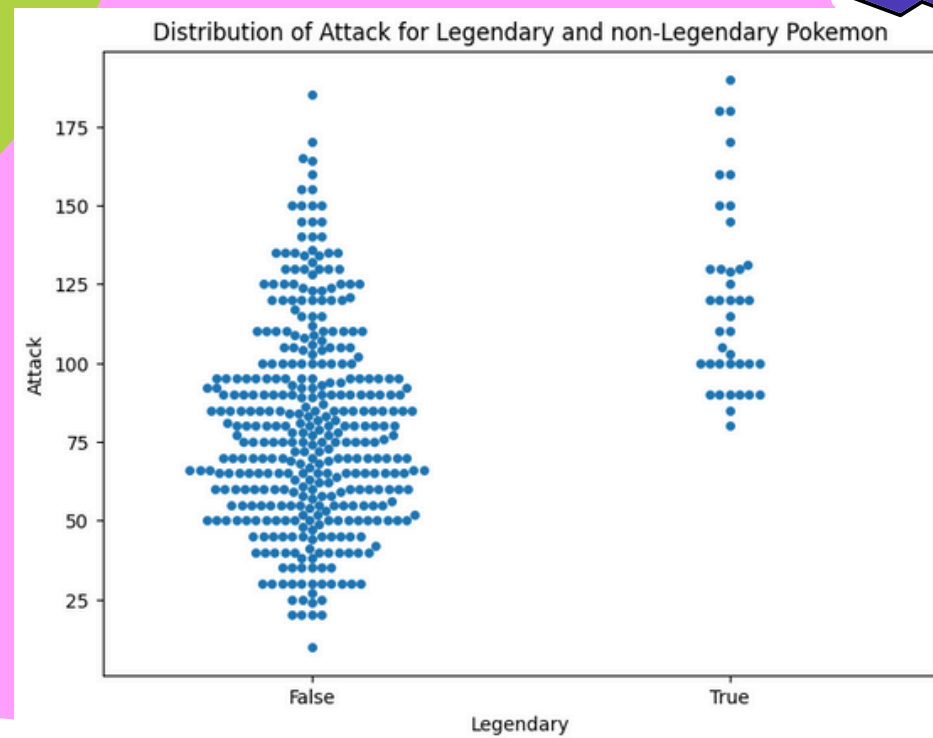
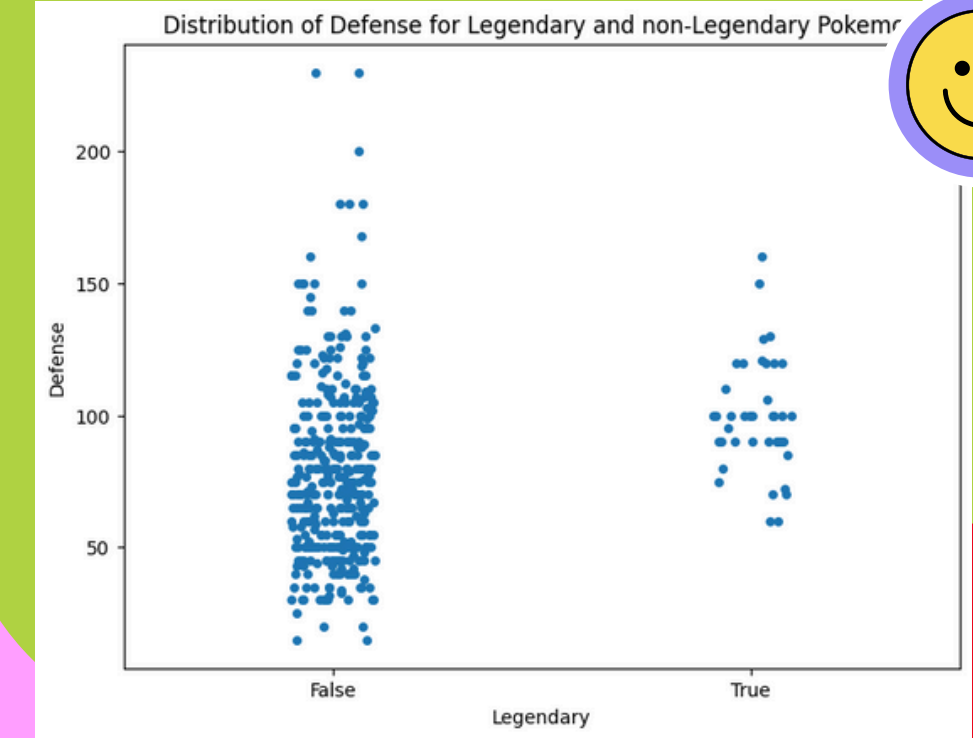
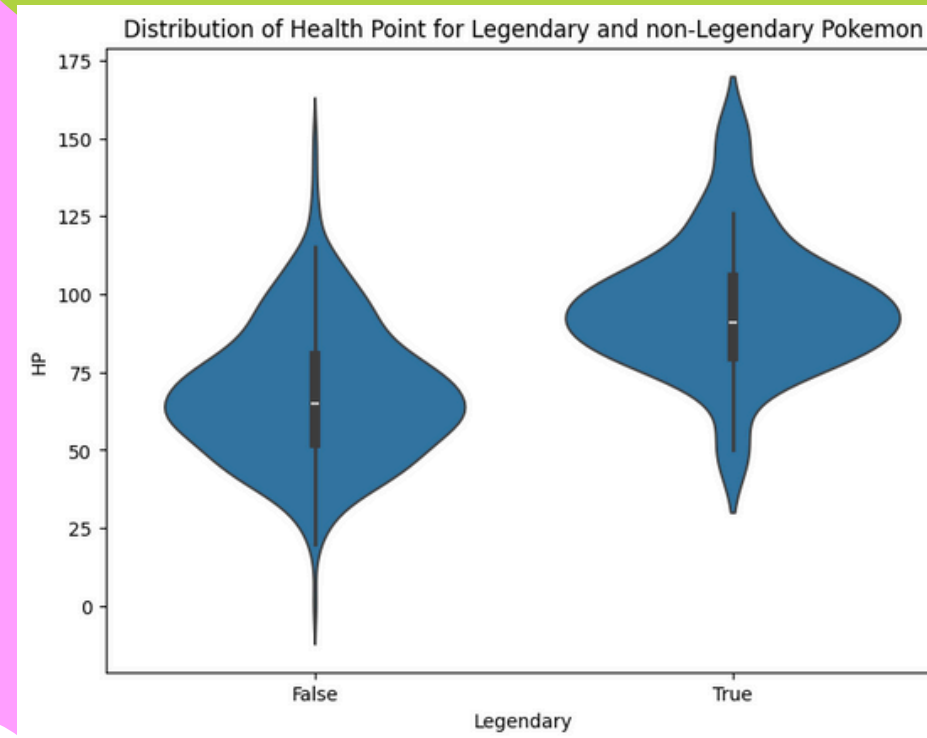
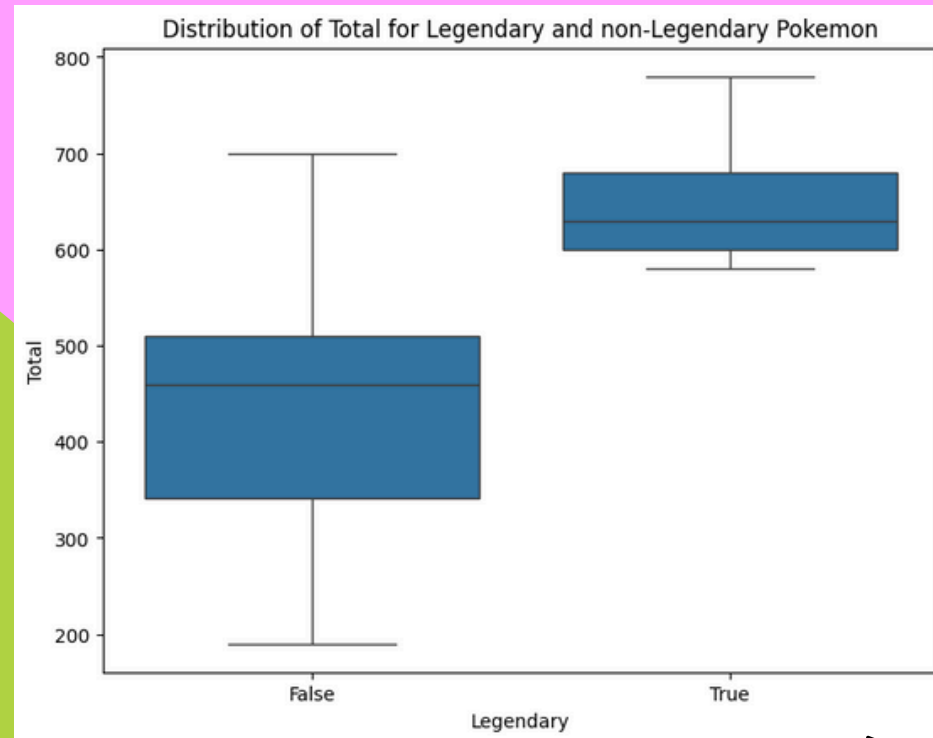
Number of Pokemon by Secondary Type



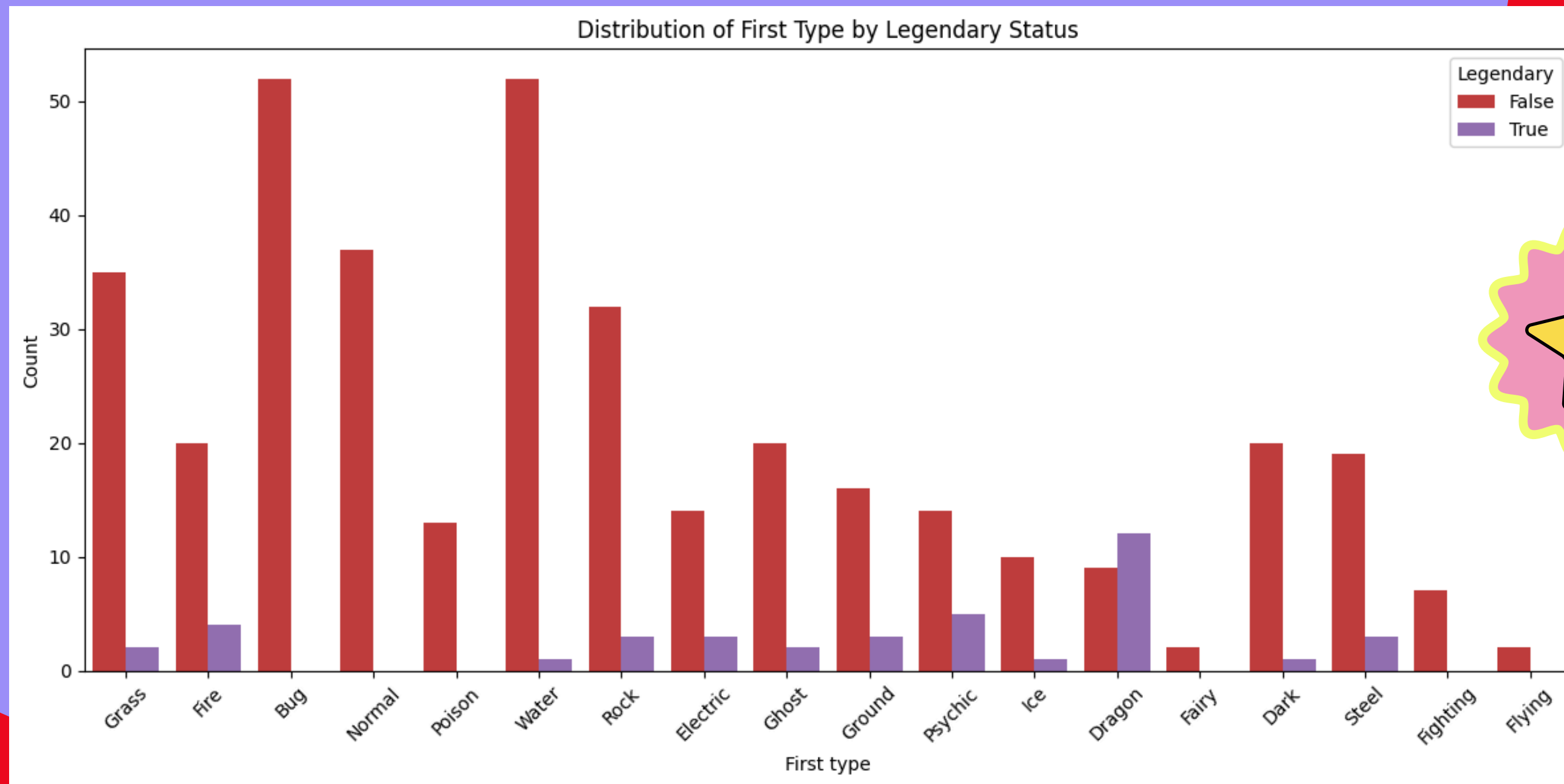
Referring to the picture on the side, **flying** as the most secondary type of Pokemon and **bug** as the least secondary type of Pokemon.

INSIGHT FROM THE DATA

Pokemon that enter the legendary cluster are pokemon that have high Health Point, Total, Defense, Attack, Special Attack, and Special Defense values.



INSIGHT FROM THE DATA

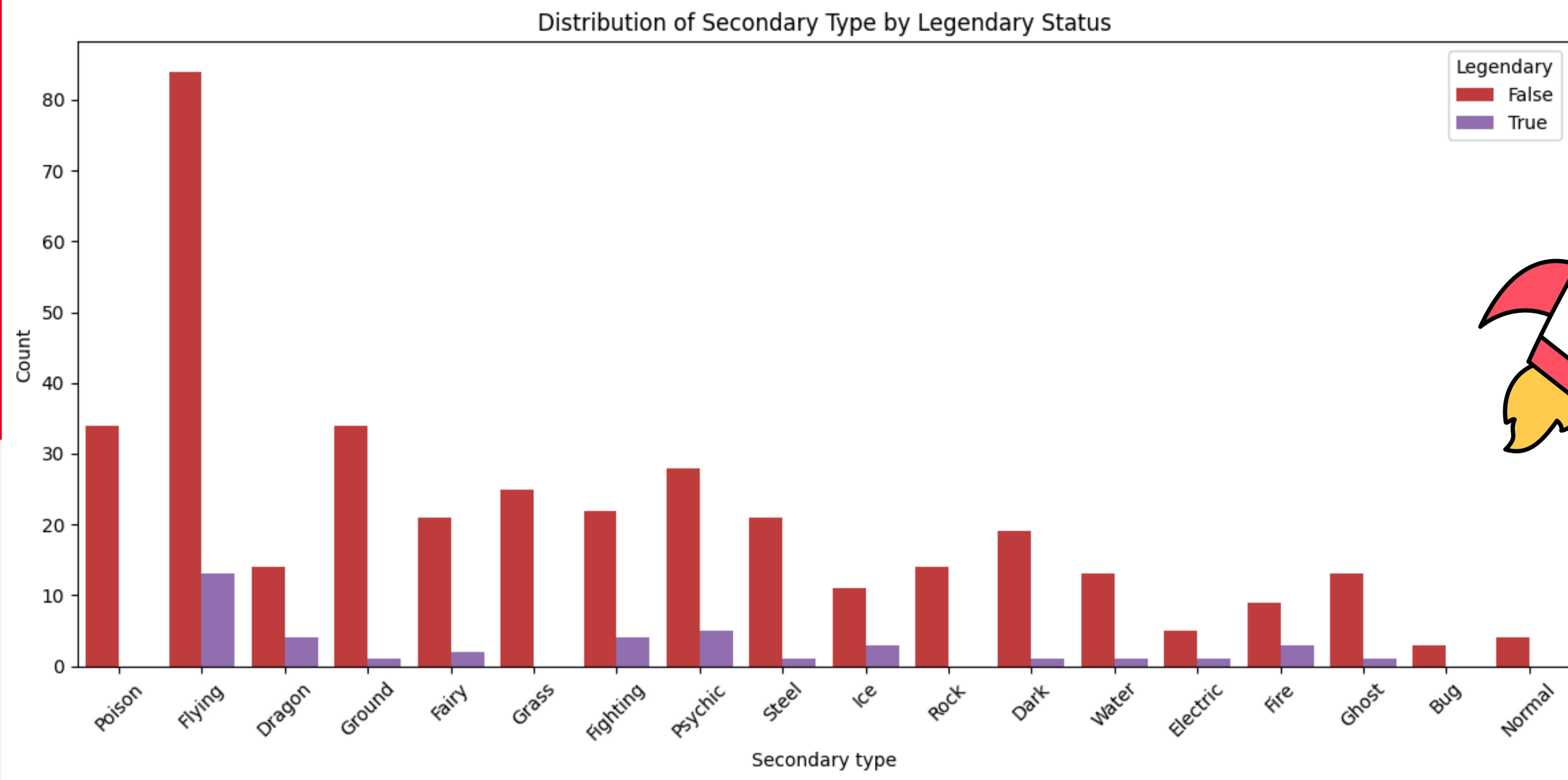


!MAIN POINT!

Dragon is the most first type of pokemon that has legendary cluster.

The First Type of Pokemon that include the legendary cluster are Grass, Fire, Water, Rock, Electric, Ghost, Ground, Psychic, Ice, Dragon, Dark, and Steel.

INSIGHT FROM THE DATA



!MAIN POINT!

Flying is the most secondary type of pokemon that has legendary cluster.

The Secondary Type of Pokemon that include the legendary cluster are Flying, Dragon, Ground, fairy, Fighting, Psychic, Steel, Ice, Dark, Water, Electric, Fire, and Ghost.



THANK YOU

I hope you can get useful knowledge
from this presentation. Good luck !



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