

# Superhero Dataset Analysis

## Most Powerful Superhero:

- To define the most powerful superhero from the dataset, we consider the overall score.
- These scores give us an idea of a superhero's capabilities, and based on that, we can determine the most powerful superhero created by each creator.
- **Name:** Great Evil Beast, **Real Name:** The Great ,
- **Darkness Overall Score:** 237.0

# Most Powerful Superhero from each Creators:

Most powerful superhero from each creator:  
Creator: ABC Studios, Most powerful superhero: JJ Powell  
Creator: Blizzard Entertainment, Most powerful superhero: A'dal  
Creator: Capcom, Most powerful superhero: Asura  
Creator: Cartoon Network, Most powerful superhero: Rick Sanchez  
Creator: Clive Barker, Most powerful superhero: Pinhead  
Creator: DC Comics, Most powerful superhero: Great Evil Beast  
Creator: Dark Horse Comics, Most powerful superhero: Hellboy (Injustice 2)  
Creator: Disney, Most powerful superhero: Maui  
Creator: Dreamworks, Most powerful superhero: Jack Frost  
Creator: George Lucas, Most powerful superhero: Darth Nihilus  
Creator: George R. R. Martin, Most powerful superhero: Night King  
Creator: Hanna-Barbera, Most powerful superhero: Birdman  
Error occurred: nan  
Creator: Hasbro, Most powerful superhero: Unicron  
Creator: IDW Publishing, Most powerful superhero: Selene  
Creator: Ian Fleming, Most powerful superhero: James Bond (Craig)  
Creator: Icon Comics, Most powerful superhero: Hit-Girl  
Creator: Image Comics, Most powerful superhero: Violator  
Creator: J. K. Rowling, Most powerful superhero: Professor Dumbledore  
Creator: J. R. R. Tolkien, Most powerful superhero: Fëanor  
Creator: Konami, Most powerful superhero: Dracula  
Creator: Lego, Most powerful superhero: Golden Ninja  
Creator: Marvel Comics, Most powerful superhero: Goblin Force  
Creator: Matt Groening, Most powerful superhero: Superking  
Creator: Mattel, Most powerful superhero: Skeletor  
Creator: Microsoft, Most powerful superhero: Master Chief  
Creator: Mortal Kombat, Most powerful superhero: Shao Kahn  
Creator: NBC - Heroes, Most powerful superhero: Peter Petrelli  
Creator: Namco, Most powerful superhero: Chosen Undead  
Creator: Nintendo, Most powerful superhero: Link  
Creator: Sega, Most powerful superhero: Sonic The Hedgehog  
Creator: Shueisha, Most powerful superhero: Devilman  
Creator: Sony Pictures, Most powerful superhero: Hancock  
Creator: South Park, Most powerful superhero: Captain Hindsight  
Creator: Star Trek, Most powerful superhero: Data  
Creator: Stephen King, Most powerful superhero: IT  
Creator: SyFy, Most powerful superhero: Penny  
Error occurred: nan  
Creator: Ubisoft, Most powerful superhero: The Prince  
Creator: Universal Studios, Most powerful superhero: Gru  
Creator: Wildstorm, Most powerful superhero: Castiel

## Top 5 superpowers:

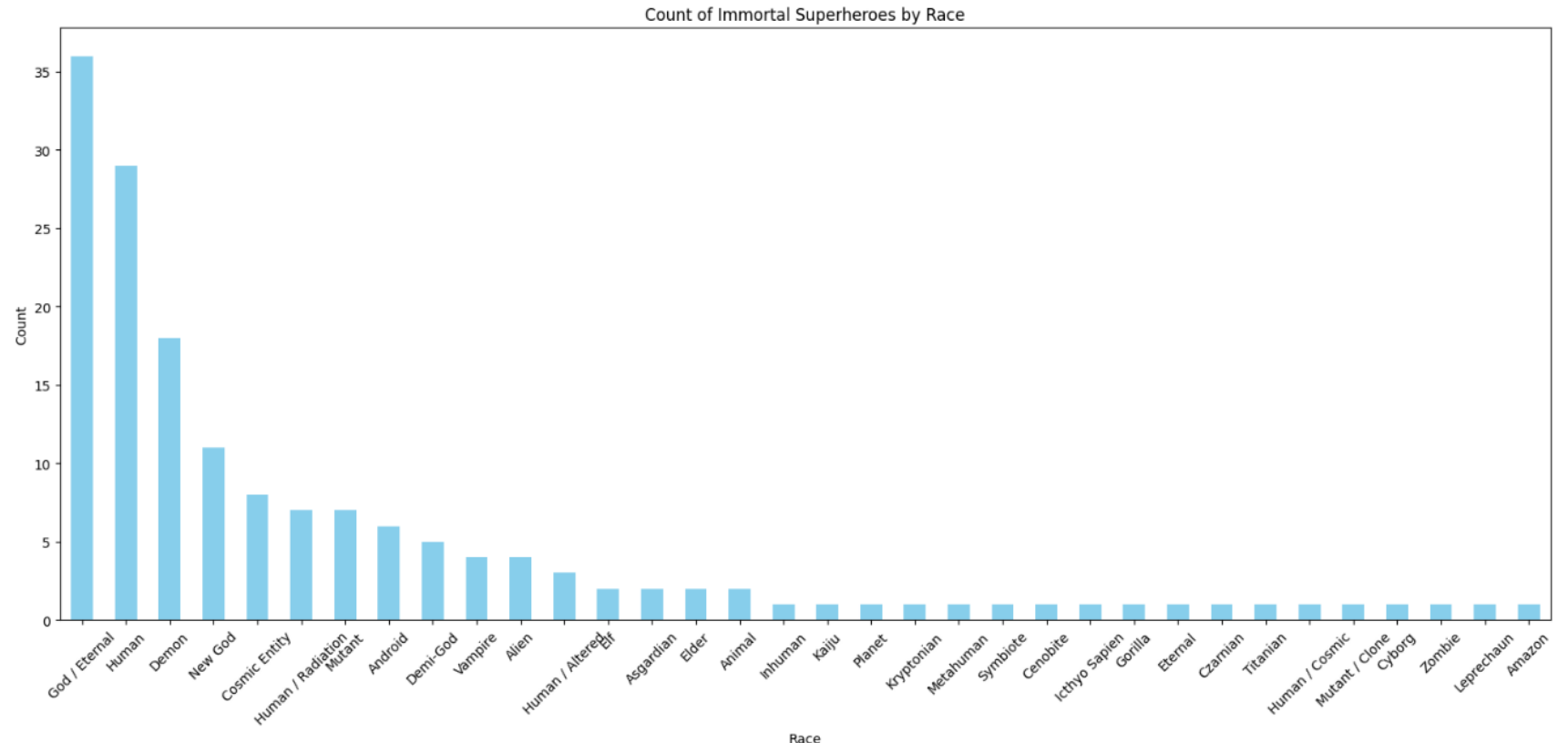
- From the dataset, we can find the top 5 superpowers by counting the occurrences of each power.
- This will help us understand the most common and influential abilities possessed by the superheroes.
- Results:

```
'Stamina'          729
'Durability'       614
'Reflexes'         588
'Intelligence'     565
'Super Strength'   561
dtype: int64
```

# Most immortal race:

- By analyzing the data, we can identify which race has the most immortal superheroes.
- This will give us an insight into the prevalence of immortality within different races in the superhero universe.

- **Result:**



## Creator with most "Parademon" superheroes:

- We can find the creator who has the highest number of superheroes of the "Parademon" type. This will help us understand which creator is most associated with these specific characters.
- **Result:** The creator with the most superheroes of type 'Parademon' is 'DC Comics'

## Creator with most superhero teams:

- The comic creator with the most superhero teams is: Marvel Comics
- Name: Wolverine ,Real Name: Logan is the superhero who is a part of the most teams.
- Furthermore, we can check if there are any crossovers between creators and teams.

## Characteristics predicting superhero alignment:

- Analyzing the dataset, we can find the characteristics that can help predict a superhero's alignment, which refers to whether they are good, evil, or neutral.
- For that we need to find correlation values of each characteristics from which we can predict the superhero alignment.
- By sorting the correlation values in descending order, the code identifies which characteristics are most strongly correlated with the superhero alignment. The values closer to 1 indicate a strong positive correlation, while values closer to -1 indicate a strong negative correlation.



Good	734
Bad	402
Neutral	103
Name: alignment, dtype: int64	
alignment_cat	1.000000
alignment_encoded	0.233198
has_agility	0.151423
has_stealth	0.127708
has_dexterity	0.125878
has_reflexes	0.118482
has_marksmanship	0.108995
has_enhanced_senses	0.101296
has_stamina	0.093725
has_enhanced_hearing	0.093634
has_shapeshifting	0.076531
has_energy_constrcuts	0.075311
has_super_speed	0.073839
has_endurance	0.068344
has_dimensional_travel	0.065465
speed_score	0.061032
has_illusions	0.060230
has_flight	0.056255
has_accelerated_healing	0.052657
combat_score	0.046591
has_force_fields	0.046587
has_energy_manipulation	0.043989
has_peak_human_condition	0.036612
has_longevity	0.036230
has_jump	0.030460
has_mind_control_resistance	0.029310
has_self-sustenance	0.028342
has_intelligence	0.027874
power_score	0.025031
has_weapons_master	0.023993
has_immortality	0.022927
has_telepathy	0.013277
has_weapon-based_powers	0.012933
has_reality_warping	0.012144
has_matter_manipulation	0.010202
has_energy_blasts	0.005733
has_energy_absorption	0.004484
has_telepathy_resistance	0.004480
has_magic	0.004423
durability_score	0.003656
has_teleportation	0.002244
has_fire_control	-0.000810
has_durability	-0.003579
has_toxin_and_disease_resistance	-0.004075

# Superheroes with negative past and patterns in history:

- By analyzing the history of superheroes, we can identify the ones who had a negative past but are now aligned positively.
- Total 373 superheroes are found in such category.

5 List of superheroes having a negat.

	name	alignment \
2	A-Bomb	Good
3	Aa	Good
5	Aayla Secura	Good
6	Abe Sapien	Good
7	Abin Sur	Good
...	...	...
1438	Yo-yo (MCU)	Good
1439	Yoda	Good
1443	Yukio	Good
1445	Zatanna	Good
1446	Zero	Good

The resulting word cloud visually represents the most prominent terms or words found in the superhero history, providing a quick overview of the prevalent themes or concepts of each creators.



## Report on superheroes with the most relatives:

- We can compile a report on the top 10 superheroes with the most relatives, including information on the status of the count of relatives and the alignment of those superheroes.

```
mutates[ relatives ] = sub_mutates[ relatives ]
      name alignment relative_count
      Namor      Good           38
      Havok      Good           34
      Aquaman    Good           29
      Cyclops    Good           22
      Robin V    Good           22
      Supergirl   Good           18
      Baron Zemo  Bad            17
      Rider (King Of Hell) Good      16
      Crimson Crusader Good         15
      Colossus    Good           14
on input 71 624f0de7ed7b3c20: SettingWithCopyWarning:
```

## Other interesting insights:

- Here We have considered overall score to compare Superheroes
- By comparing the overall score we can recommend those comic character
- Result:

```
⇒ Recommendations for comic characters to read or watch:  
Character Name: Great Evil Beast  
Overall Score: 237  
-----  
Character Name: Devilman  
Overall Score: 229  
-----  
Character Name: Golden Ninja  
Overall Score: 226  
-----
```