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# Problem Statement - Anime Rating Case Study

## **Context**

Streamist is a streaming company that streams web series and movies for a worldwide audience. Every content on their portal is rated by the viewers, and the portal also provides other information for the content like the number of people who have watched it, the number of people who want to watch it, the number of episodes, duration of an episode, etc.

They are currently focusing on the anime available in their portal, and want to identify the most important factors involved in rating an anime. You as a data scientist at Streamist are tasked with identifying the important factors and building a predictive model to predict the rating on an anime.

# **Objective**

To analyze the data and build a linear regression model to predict the ratings of anime.

# **Key Questions**

What are the key factors influencing the rating of an anime?

. Is there a good predictive model for the rating of an anime? What does the performance assessment look like for such a model?

## **Data Information**

Each record in the database provides a description of an anime. A detailed data dictionary can be found below.

## **Data Dictionary**

- title the title of anime
- · description the synopsis of the plot

- mediaType format of publication
- eps number of episodes (movies are considered 1 episode)
- · duration duration of an episode in minutes
- ongoing whether it is ongoing
- sznOfRelease the season of release (Winter, Spring, Fall)
- years\_running number of years the anime ran/is running
- studio\_primary primary studio of production
- studios\_colab whether there was a collaboration between studios to produce the anime
- contentWarn whether anime has a content warning
- watched number of users that completed it
- watching number of users that are watching it
- wantWatch number of users that want to watch it
- dropped number of users that dropped it before completion
- rating average user rating
- votes number of votes that contribute to rating
- tag\_Based\_on\_a\_Manga whether the anime is based on a manga
- tag Comedy whether the anime is of Comedy genre
- tag\_Action whether the anime is of Action genre
- tag\_Fantasy whether the anime is of Fantasy genre
- tag\_Sci\_Fi whether the anime is of Sci-Fi genre
- tag\_Shounen whether the anime has a tag Shounen
- tag\_Original\_Work whether the anime is an original work
- tag\_Non\_Human\_Protagonists whether the anime has any non-human protagonists
- tag\_Drama whether the anime is of Drama genre
- tag\_Adventure whether the anime is of Adventure genre
- tag\_Family\_Friendly whether the anime is family-friendly
- tag\_Short\_Episodes whether the anime has short episodes
- tag\_School\_Life whether the anime is regarding school life
- tag\_Romance whether the anime is of Romance genre
- tag\_Shorts whether the anime has a tag Shorts
- tag Slice of Life whether the anime has a tag Slice of Life
- tag\_Seinen whether the anime has a tag Seinen
- tag Supernatural whether the anime has a tag Supernatural

- tag\_Magic whether the anime has a tag Magic
- tag Animal Protagonists whether the anime has animal protagonists
- tag Ecchi whether the anime has a tag Ecchi
- tag Mecha whether the anime has a tag Mecha
- tag\_Based\_on\_a\_Light\_Novel whether the anime is based on a light novel
- tag\_CG\_Animation whether the anime has a tag CG Animation
- tag\_Superpowers whether the anime has a tag Superpowers
- tag\_Others whether the anime has other tags
- tag is missing whether tag is missing or not

# **Learning Outcomes**

- Exploratory Data Analysis
- Preparing the data to train a model
- Training a regression model
- Model evaluation
- Forward Feature Selection

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