GENERATIVE AI SURIYAA N S

ASSIGNMENT 1 22CSR213

EXAMPLE :

ID ANIME VOLUMES CHAPTERS AIR\_YEAR RATING REVENUE

1 JOJO 30 150 1999 4.7 $1.2M

2 ONE PIECE 200 2000 1997 4.9 $1.7B

3 HAIKYUU 15 150 2004 4.5 $700K

4 BLACK 60 300 2010 4.3 $2.5M

CLOVER

5 NARUTO 50 500 1999 4.6 $2M

6 VINLAND

SAGA 12 120 2007 5.0 $500k

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TERMINOLOGIES

FEATURE :

Each and every property and information given in the dataset .

LABEL :

Outcome that the model is trying to predict

PREDICTION :

The output from a model after training it with datasets and providing it with a new input

OUTLIERS :

The data that differs completely from the other observations

TEST DATA :

Set of data used to test the performance of the model

TRAINING DATA:

Data that we provided for the model to train it

VALIDATION DATA :

Data used to overcome overfitting

HYPERPARAMETER :

Tune the model

EPOCH :

Complete an entire dataset successfully

LOSS FUNCTION:

How well the model predicts the actual ones

LEARNING RATE :

How much model weights are updated to wrto gradient loss

OVERFITTING :

The model predicts training data perfectly but fails on test data.

UNDERFITTING :

The model predicts both training and test data poorly.

REGULARIZATION :

Prevent overfitting by adding penalty values

FEATURE LEARNING :

Creating new features to make ml algorithms work better

DIMENSIONALITY REDUCTION :

Reducing the no of inputs in the dataset

BIAS :

Error introduced from a real-world problem

VARIANCE :

Error from model due to small fluctuations in dataset

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