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| **CST 3130-Advanced Web Development with Big Data** |
| Coursework 2: Project |
| *“Data Visualization Website”* |
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# **Description**

The committed project was to develop a data visualization website that visualize numerical, and sentimental data, illustrating meaning full visuals that make viewer understand the trends is going one what direction and the sentiment of particular object showing public view regarding this. It was an amazing experience that we used machine learning, aws serverless platform sentiment analysis.

# **Website**

Chart, pie chart

Description automatically generated

Following chart illustrating the positive, negative mixed and neutral, regarding the selected “Movie”. In results we could see the 83% percent expressing their positive gesture over the movie.

Chart, bar chart

Description automatically generated

Overall, all movies from around 1000s records, most movie rating remain around 8.2 to 8.6.

Bar chart

Description automatically generated

There is a movie all the time famous which is “The Godfather” we can see around 9.2 imdb rating.

Chart, pie chart

Description automatically generated

Website is live from s3 bucket.

# **Backend**

As described Database is maintained on DynamoDB

Graphical user interface, application

Description automatically generated

I had two sources of database initially both having diff fields, due to that I have maintained MoviesDS1, MoviesDS2. So far MoviesDS2 is not used. There is an table “TextData” were text data is landed.

There is a table TextSentiments which is used my “processSentiment” function in Lambda which is getting live inserted data into “TextData” table and using AWS Comprehend generate sentiments.

Graphical user interface, text, application, email

Description automatically generated

wsGetData function is showing numerical Data

Graphical user interface, application

Description automatically generated

wsGetSentiment is showing sentiment data

Graphical user interface, application

Description automatically generated

processSentiment AWS Comprehend function where sentiment generated and write to “TextSentiments”

Graphical user interface, application

Description automatically generated

Graphical user interface

Description automatically generated

Sentiment picked from here

Text

Description automatically generated

Movies from here

Text

Description automatically generated