GLA UNIVERSITY, MATHURA-2021

RATING PREDICTION USING REVIEWS (CLOUD COMPUTING PROJECT)

SYNOPSIS

Under the supervision
Of
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OBJECTIVE:

- The aim of this project is to develop a machine learning algorithm which allow us analyze the reviews and then predict the rating.
- After that this model will be deployed on the cloud (Heroku or AWS).

MODULES:

- Data Preparation and preprocessing: Data preparation involves data collection, data visualization, labeling, data selection whereas Data preprocessing involves data formatting, data cleaning, data sampling, data transformation.
- Data Splitting: Dividing the dataset into two parts training set and testing set.
- Modeling: Model training through various algorithm, model evaluation and testing through Accuracy_score, precision and recall.
- Model Deployment

DATASET:

The dataset that we have chosen consists of training samples of reviews and rating where the rating has the range 1 to 5, our objective is to predict the rating from the given reviews on the given dataset.

TECHNOLOGY:

- Technology Implemented: Machine Learning, Cloud Computing
- Software used: Anaconda
- Language used: Python
- Frontend Design: HTML, CSS
- Backend Design: Flask
- Deployed on: Heroku or AWS

EXPECTED OUTCOME:

- After we are establishing the model of the ascribed topic, we will be able to predict the rating from the reviews which could be implemented on various travelling websites and could prove helpful for the travelling agencies to serve the customer better.
- This is a practical implementation of a machine learning model implemented on cloud which can be used in future and has scope for further other implementation of text classification model.