Proposal

For

Year Project

Bachelor of Science in Information Technology

Movie Rating Analysis

Submitted by

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Gyalpozhing College of Information Technology

Read carefully before filling the form.

1. Please do not alter the layout of the application form. Information must be filled in the spaces provided, under set format.
2. Guidance notes in various fields should not be deleted.
3. Required information should be duly filled in the specified fields.

Guidelines and Forms

Submission Procedure

Duly filled proposal forms completed in all respects should be submitted in form of soft copy in the VLE. On receipt of the applications the proposals will be evaluated by the examiner and proposal would then be defended by student groups. The project group may need to revise the proposal in light of the examiner's recommendations.

For further information, please contact:

Module Coordinator

Tshering
tshering.gcit@rub.edu.bt

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Application for the Project

1. Project Identification

1.1 **Reference Number:**

2022_PRJ303_07(Year_Module_groupNo)

(for office use only)

1.2 **Problem statement**

*(Please refer **here** on how to write a problem statement.)*

Everyone likes a good movie. For a user to know whether a movie is good or bad, they will have to watch the whole movie which is time consuming but if there is a rating given for a movie they will be able to know and can decide to watch the movie based on the rating. So, this movie rating system will help the users to know and decide on what movie they want to watch which will save their time.

1.3 **Project Title:**

(Provide a concise, accurate and informative title which immediately orientates your reader to the focus of your project.)

MOVIE RATING ANALYSIS

1.4 **Key Words:**

(Please provide a maximum of 5 key words that describe the project. The key words will be incorporated in our database.)

Movie Rating, Analysis, Machine Learning, Review

1.5 **Project Guide:**

Name:

Designation:

Mobile # : Tel. # :

Email:

1.4.1. Project examiner 1:

Name:	
Designation:	
Mobile # :	Tel. # :
Email:	

1.4.2. Project examiner 2:

Name:	
Designation:	
Mobile # :	Mobile # :
Email:	

1.6 **Project Duration:**

Starting Date:	4th March 2022
Completion Date:	7th June 2022

2. Aims, Goals, Objectives and scope of the Project

2.1 Aims of the Project:

The aim of the project is to analyze the ratings of the movie.

2.2 Goals of the Project:

The goal of the project is to analyze the movie ratings and display the top rated movies.

2.3 Objectives of the Project:

1. To help users to easily find the best movie without consuming time.

2.4 Scope of the Project:

The scope of the project is for those students of Gyalpozhing that loves to watch movies.

3 Project features

3.1 Background

(Explains why you are doing the project. It provides a brief overview of the background to the project and establishes a particular area, or problem, that needs to be investigated further. It provides a clear statement of the topic of the proposed work.)

A movie or a motion picture, is a series of still photographs on film projected onto a screen using light in rapid succession. Film is a remarkably effective medium in conveying drama and especially in the evocation of emotion. The art of motion pictures is exceedingly complex, requiring contributions from nearly all the other arts as well as countless technical skills. Emerging at the end of the 19th century, this new art form became one of the most popular and influential media of the 20th century and beyond. As a commercial venture, offering fictional narratives to large audiences in theatres, film was quickly recognized as perhaps the first truly mass form of entertainment. Without losing its broad appeal, the medium also developed as a means of artistic expression in such areas as acting, directing, screenwriting, cinematography, costume and set design, and music.

In the late 1880's various people began experimenting with photo, blending them together to give the illusion of a motion picture. But the technology and difficulty to capture that sort of video made motion pictures rare. One of the first movie was 'The Horse Motion' which was released in 1878. This groundbreaking motion photography was accomplished using multiple cameras and assembling the individual pictures into a single motion picture. it's something that you could do today, using a few cameras that are set to go off at an exact moment. The movie was made to scientifically answer a popularly debated question during this era: Are all four of a horse's hooves ever off the ground at the same time while the horse is galloping? The video proved that they indeed were and, more importantly, motion photography was born.

3.2 Literature Review:

(Detailed review of what all has been done internationally in the proposed area quoting references and bibliography. This section demonstrates the evolution of Technology, the depth of the project team literature search and builds the confidence of the evaluators about capability of the team in achieving the stated objectives.)

There have been many different models proposed for prediction of movie ratings. Different papers included different types of data related to the movie to evaluate its outcome on ratings. A project done on 'Bollywood Movie Success Prediction using Machine Learning Algorithms' has illustrated the use of different regression models, neural networks and classification algorithms to predict the success of Bollywood movies using data from Wikipedia, RadioMirchi and BoxOfficeIndia. The data is normalized before feeding into models. This study not only predicts movie grosses before the release, but also for newly released movies. It says that some of the movies do not do well in the first week but later on it does become successful due to publicity, Oscar nominations and other factors.

A project done by Jatin on the topic 'Movies Review Sentiment Analysis in NLP' that focused on classifying the given review about the movie is a positive review or a negative review. So for this, a model was trained on the movies review dataset and used that model for the implementation of end to end application. The project used Python Framework flask on the localhost and also deployed on heroku. Therefore, the project used naïve-bayes algorithm to train the model. They collected the data which contains a total of 50,000 movie reviews with labels from Natural Language Processing, in this data 25,000 reviews were positive and 25,000 reviews were negative.

With similar ideas, our group have decided to develop a system that will provide the reviews of a particular movies.

3.3 Requirements

Functional requirement

This analysis is the movie ratings based on different genres of the movies. The system will display the ratings given by the viewers from 0 to 10.

Non-functional requirement:

1. Portability: The system will be able to co-exist with another system in the same environment.
2. User-friendly: The system is well designed and easy to use.

3.4 Technology

Software Technology:

- Google Colab
- Visual Studio Code
- Heroku

Hardware Technology:

Developer requirements:

- Laptop/Desktop (Microsoft Windows 7/8/10 (64 bits)/Linux)
- 8 GB RAM minimum, 16GB RAM recommended
- 1280 * 800 minimum screen resolution
- Processor 2.00GHz * 4

3.5 System Architecture

1.5.1 System Design

This project is a two tier architecture where it contains the presentation layer which will run on the client, and application tier that gets stored on a server.

Presentation Tier: It is a user interface and communication layer of the application. The user will select the genre of the movie where the top rated movies will be displayed.

Application Tier: It is also known as the logic tier or middle tier. After selecting the genre of the movie, the system will process the information that is to be displayed.

1.5.2 Workflow

1.6 Deployment

The the completed project will be hosed on heroku.

4 Team Members Role

4.1 **Member 1 Name and Role**

Karma Tenzin

Team Leader

4.2 **Member 2 Name and Role**

Pema Zangmo

Lead Programmer

4.3 **Member 3 Name and Role**

Choki Wangmo

Database Designer

4.4 **Member 4 Name and Role**

Sonam Yangchen

UI (User Interface) Design

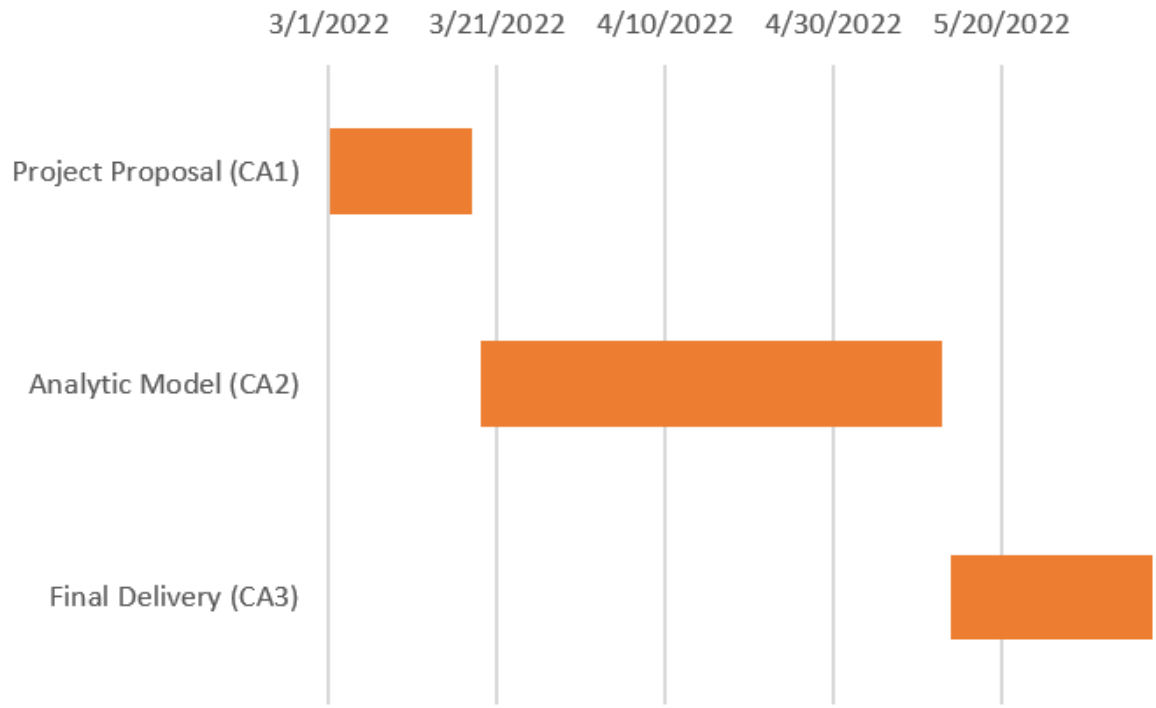
5. Examiner Comments

6. Project Schedule / Milestone Chart /Work plan

[describes what you will do. It is a plan of the tasks which will enable you to achieve the stated aims of your project. To devise a plan, you need to break the project down into a series of steps or stages, and you then outline the tasks within each stage. The project plan should also include a timetable in which you plan the timing for the main tasks. This timetable can help to keep you on track throughout the project. The plan may also include a list of the resources required to do the project.]

(Project schedule using MS-Project (or similar tools) with all tasks, deliverables, milestones, clearly indicated are preferred. Task should be measured in terms of hours)

SI.No	Title	Start Date	End Date
1	Project Proposal (CA1)	1/3/2022	18/3/2022
2	Analytic Model (CA2)	19/3/2022	13/5/2022
3	Final Delivery (CA3)	14/5/2022	7/6/2022



7. Bibliography

Jatin. (2021, August 15). *Movies Review Sentiment Analysis in NLP*. Data Science. Retrieved March 20, 2022, from https://www.datascience2000.in/2021/05/movies-review-sentiment-analysis-in-nlp.html

Nagalapuram, G. D. (2021, May 18). *Analyzing movie reviews using sentiment analysis*. Medium. Retrieved March 20, 2022, from https://medium.com/nerd-for-tech/analysing-movie-reviews-using-sentimental-analysis-77e28e463b1b

RAHULVISHWAKARMA667/imdb-movie-case-study. Jovian. (n.d.). Retrieved March 20, 2022, from https://jovian.ai/rahulvishwakarma667/imdb-movie-case-study

Mestyán, M., Yasseri, T., & Kertész, J. (n.d.). *Early prediction of movie box office success based on Wikipedia Activity Big Data*. PLOS ONE. Retrieved March 20, 2022, from https://journals.plos.org/plosone/article?id=10.1371%2Fjournal.pone.0071226

Fig 1 and Fig 2 shows the interaction of movie ratings imdbrating with the: Course hero. Fig 1 and Fig 2 shows the interaction of movie ratings imdbRating with the | Course Hero. (n.d.). Retrieved March 20, 2022, from https://www.coursehero.com/file/p5qpgjk5/Fig-1-and-Fig-2-shows-the-interaction-of-movie-ratings-imdbRating-with-the/

Bollywood movie success prediction using Machine Learning Algorithms. IEEE Xplore. (n.d.). Retrieved March 20, 2022, from https://ieeexplore.ieee.org/document/8739693