**BAHRIA UNIVERSITY, (Karachi Campus)**

*Department of Software Engineering*

PROPOSAL

**Course Title: Data Mining**   **Course Code**: **CSL – (452)**

**Course Instructor: Dr. Amina Jameel Class**: **BSE- 6(B)**

**Lab Instructor:** **Engr. Ramsha Mashood Name: \_\_\_Iqra Afzaal\_\_\_**

**Date: \_\_\_29-May-2022\_\_\_**

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| ***PROJECT TITLE:***  ***“MOVIE SUCCESS PREDICTION AND***  ***RECOMMENDATION SYSTEM”*** |
| ***GROUP MEMBERS LIST:***  ***KINZA NOOR (Team Lead)***  ***IQRA AFZAAL***  ***AQSA SHAMSHER*** |
| ***PROJECT SCOPE:***  Recommendation and Success Prediction System of Movies based on the historical data were extracted from the Internet Movie Database (IMDb). It will display movies similar to the one that entered in textbox and also predict success of the movie. |
| ***MACHINE LEARNING ALGO AND DOMAIN:***   * **ALGORIHMS:**   + **Machine learning –  *KNN (K Nearest Neighbors), NAÏVE BAYES***   + ***Domain* – Entertainment** |
| ***PROJECT ABSTRACT:***  The main goal of this project is to develop the models to predict the success and the ratings of a new movie before its release and to recommend movies to the users for their easiness. Since the success of a movie is highly influenced by the actor, actress, director, music director and production company, those historical data were extracted from the Internet Movie Database (IMDb). The Box Office stores information about the cost of production of a movie and the total income of the movie. This information is helpful to determine whether the movie is successful or not in terms of revenue. A threshold was defined on revenue based on heuristics to categorize the movie into success or failure. |
| ***PROJECT FUNCTIONALITIES:***  ***The functionalities of project are following:***   * Recommend movies based upon search. * Success prediction of movies based upon Directors, movie’s budget, actors and genre of upcoming release. |
| ***MODULE DISTRIBUTION:***   1. **Iqra Afzaal & Aqsa Shamsher:** Data Analysis and Recommendation System using KNN 2. **Kinza Noor & Aqsa Shamsher:** Success Prediction using NAÏVE BAYES |

**Teacher Signature**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Remarks**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Submission Date**: \_\_\_\_\_\_\_\_**6 JUNE 2022**\_\_\_\_\_\_\_\_\_\_