

PROJECT REPORT

Date	19 November ,2022
Team ID	PNT2022TMID21492
Project Name	University Admit Eligibility Predictor

UNIVERSITY ADMIT ELIGIBILITY PREDICTOR

1. INTRODUCTION

Students are often worried about their chances of admission to University. The aim of this project is to help students in shortlisting universities with their profiles. The predicted output gives them a fair idea about their admission chances to a particular university. This analysis should also help students who are currently preparing or will be preparing to get a better idea. College admission predictor is a boon to many students. This helps the student not only to help in filling out the application forms but also give the students an idea about their future college by calculating their cut off.

1.1 Project Overview

The university prediction mostly depends the initial steps that are being carried out. Firstly, the dataset collection. The data that is collected for the prediction must be accurate and concise in nature. Any discrepancies in the dataset will cost the accuracy of the university prediction directly. The second step is Data preprocessing. The collected data is improper i.e., those data will have outliers, missing values and the number of attributes may also be huge. At times the data can also be unstructured. In order to solve this issue, the data must be cleaned and preprocessed in a proper manner. The next important issues arise with the data consistency, the university prediction data must be consistent.

1.2 Purpose

The university prediction may help the school student's hugely to predict good possibility of good college. This university prediction can help the students hugely to plan ahead and save their valuable time. The reputation of the university can be majorly dependent on these university prediction because the prediction has a direct hand in determining the society trust on the application. Proper data preprocessing helps the model to get a high yield accuracy.

2. LITERATURE SURVEY

2.1 Existing Problem

S. No	Author Name	Title of the Paper	Publication Year	Description	Advantage
1	Sara Aljasmi, Ali Bou Nassif, Ismail Shatin, Ashraf Elnagarr.	Graduate Admission Prediction Using Machine Learning	2020	Student admission problem is very important in educational institutions. This paper addresses machine learning models to predict the chance of a student to be admitted to a master's program. This will assist students to know in advance if they have a chance to get accepted.	The machine learning models included are multiple linear regression, k-nearest neighbor, random forest, and Multilayer Perceptron. Experiments show that the Multilayer Perceptron model surpasses other models.

2	Sharan Kumar Paratala Rajagopa	Predicting Student University Admission Using Logistic Regression	2020	The primary purpose is to discuss the prediction of student admission to university based on numerous factors and using logistic regression. The admission decision depends on criteria within the particular college or degree program. The independent variables in this study will be measured statistically to predict graduate school admission.	This model would likely be greatly improved by the gathering of additional data of students from different universities which has similar selection criteria to choose the candidates for Master's program.
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3	<u>Jia Qing</u>	Introduction to Modelling Tabular Data: Predicting a student's chance of gaining admission using ML	2021	The objective of this analysis is to explore the most important factors for a student to get into graduate school and to select the most accurate model to predict a student's chances of gaining admission into Graduate school	Linear bestregressi on seems to perform the compared to the neural net and the random forest which proves that complicat ed models doesn't always produce better results. ensembling the models produced a better result
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4	<u>Abdul Hamid</u> <u>M Ragab,</u> <u>Abdul Fatah</u> <u>S. Mashat,</u> <u>Ahmed M</u> <u>Khedra</u>	HRSPCA: Hybrid Recommender system for predicting college admission	2012	This paper presents a new college admission system using hybrid recommender based on data mining techniques and knowledge discovery rules, for tackling college admissions prediction problems. This is due to the huge numbers of students required to attend university colleges every year.	High prediction accuracy rate, flexibility is an advantage, as the system can predict suitable colleges that match the students' profiles and the suitable track channels through which the students are advised to enter. The system is adaptive, since performing trusted needed tasks faster and fairly.
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2.2 References

- [1]Sara Aljasmī, Ali Bou Nassif, Ismail Shahin, Ashraf Elnagar “Graduate Admission Prediction Using Machine Learning” , 2020
- [2] Sharan Kumar Paratala Rajagopa, “Predicting Student University Admission

Using Logistic Regression” ,2020

[3] Jia Qing , “Introduction to Modelling Tabular Data: Predicting a student’s chance of gaining admission using ML” , 2021

[4] Abdul Hamid M Ragab, Abdul Fatah S. Mashat, Ahmed M Khedra_ ,”HRSPCA:Hybrid Recommendersystem forpredicting college admission” , 2012

2.3 Problem Statement Definition

3.IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas

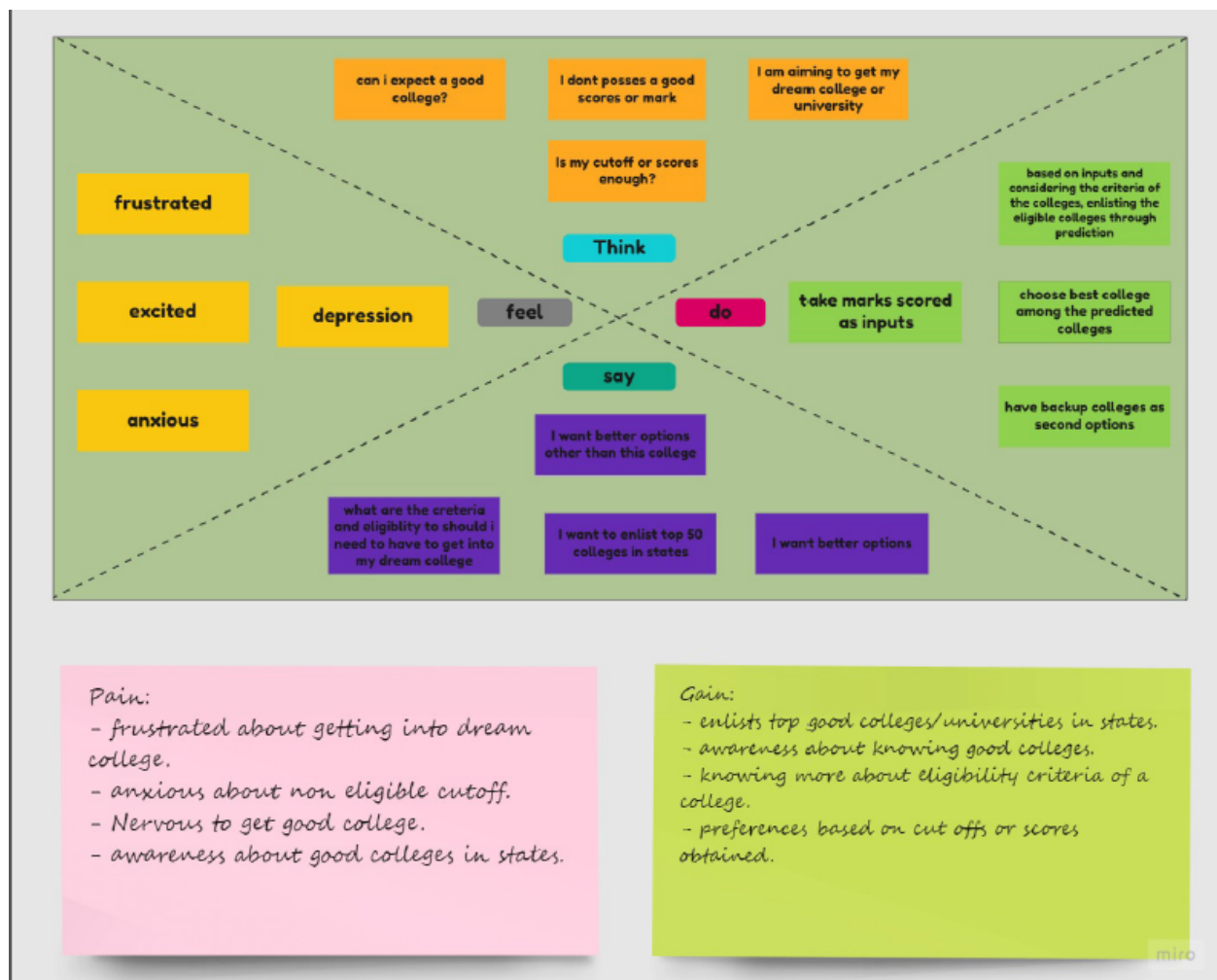


Figure 1

This Figure 1 shows a empathy map that will gives a collaborative visualization for the end user, what they can perform using this project, what challenges have been faced and also what is the

real time use for this application.

3.2 Ideation & Brainstorming

3.2.1 Brainstorm

Brainstorming phase, the ideas from every group members are gathered.

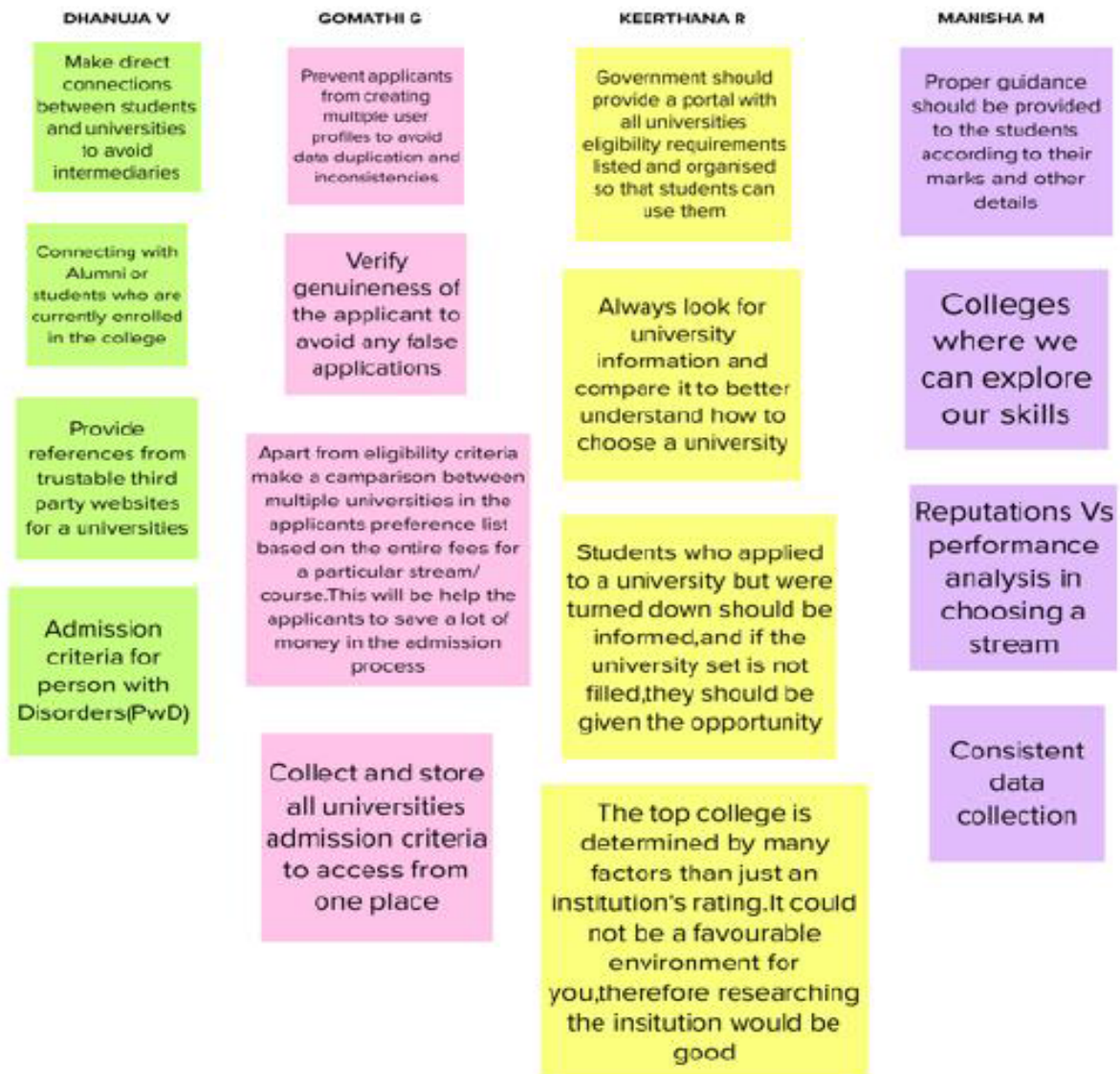


Figure 2 Brainstorm

3.2.2 Group ideas

Grouping the ideas under the suitable topics for better understanding



Figure 3 Group ideas

3.2.3 Prioritize

Prioritizing the ideas or the features and performing the feasibility study on it.



Figure 4 Prioritize

3.3 Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Students are often worried about their chances of admission to university. The aim of this project is to help students in shortlisting universities with their profiles. The predicted output gives them a fair idea

		<p>about their admission chances in a particular university.</p> <p>This analysis should also help students who are currently preparing or will be preparing to get a better idea. It also aims to make a direct connection between the students and the universities and avoid any intermediaries.</p>
2.	Idea / Solution description	<p>This project intends to calculate the probability of acceptance in a particular grad-school after assessing the candidate's profile.</p> <p>The key attributes that will be considered for making the decisions are:</p> <ul style="list-style-type: none"> a. GRE & TOEFL Scores b. Undergrad CGPA c. SOP & LOR d. Corporate Work Experience / Research Experience e. Extracurriculars <p>For determining the % of acceptance, we will be using various ML models such as Logistic Regression, Multiple Linear Regression, Decision Tree & Random Forest and assess which model gives the highest accuracy with the help of performance metrics like accuracy-score, precision and recall.</p>
3.	Novelty / Uniqueness	<ol style="list-style-type: none"> 1. We intend to develop a novel deep learning- based hybrid model that has a better accuracy than the existing traditional ML models 2. The web-app will also provide feedback on the parameters where

		the candidate is lacking so that he can improve on those areas.
4.	Social Impact/ Customer Satisfaction	<ol style="list-style-type: none"> 1. Students often feel difficult in shortlisting the universities to apply which they tend to wonder if their profile matches the requirement of a certain university. 2. Moreover, the cost of applying to a university is extremely high making it critical that students shortlist universities based on their profile. 3. A university admission prediction system is quite useful for students to determine their chances of acceptance to a specific university. 4. This system reduces dependence on educational consultancies, who charge loads of money to analyze a candidate's profile and determine the universities he/she should apply to.
5.	Business Model (Revenue Model)	<ol style="list-style-type: none"> 1. Advertisements of different universities could be placed in the web-app to generate revenue through ads. 2. In the future, a separate premium plan could be created where the students can directly interact with the professors and alumni of the university through video calls.

6.	Scalability of the Solution	<ol style="list-style-type: none"> 1. A future update could have chat space where candidates, faculties, current students of the university and alumni can interact and candidates can get their doubts resolved instantly. 2. To deal with huge volumes of data in the future (Both - applicants and university details), cloud-based storages (IBM cloud, AWS, GCP, AZURE) and NoSQL databases (MongoDB, Redis, etc.) could be used instead of the traditional RDBMS storage.
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3.4 Problem Solution fit

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Who is your customer? Candidate who wants to select the university according to their eligibility criteria.	6. CUSTOMER CONSTRAINTS CC What constraints prevent your customers from taking action on their choices of solutions? <ul style="list-style-type: none"> • An ability to think and work independently. • A positive attitude towards study. • A passion for the chosen course subject. • An ability to persevere and complete tasks. • An inquiring mind. • Good written English. 	5. AVAILABLE AS Which solutions are available to the customer when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? <ul style="list-style-type: none"> • counselling process. • advice from the seniors and life-time peer. Pros: <ul style="list-style-type: none"> • Some of them choosing the alternatives. • making decision for choosing a right college. • chance of occurrence of error is less • Proper response fast, efficient, and reliable. Cons: <ul style="list-style-type: none"> • Lack of proper guidance. • Lack of awareness. • Lack of prior knowledge 	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P Which jobs-to-be-done (or problems) do you address for your customer? To find the probability for a student to get an admit in the university before applying. Get all the required documents before counselling of admission.	9. PROBLEM ROOT CAUSE RC What is the real reason that this problem exists? It helps student for making decision for choosing a right college based on their eligibility. What is the back story behind the need to do this job? The Candidate will do it because to get right University respected to their marks.	7. BEHAVIOUR BE What does your customer do to address the problem and get the job done? To find the right University according to their marks, predict their willing university where they are eligible. The allotment is depending upon the percentage of the candidate and the availability.	

Focus on J&P, map into BE, understand RC

<p>3. TRIGGERS TR</p> <p>What triggers customers to act?</p> <p>The Candidate must get an eligible percentage to get their desired university.</p>	<p>10. YOUR SOLUTION SL</p> <p>If you are working on an existing business, write down your current solution list, fill in the canvas, and check how much it fits reality.</p> <p>If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behavior.</p>	<p>8. CHANNELS of BEHAVIOUR CH</p> <p>8.1 ONLINE</p> <p>What kind of actions do customers take online?</p> <ul style="list-style-type: none"> Guide for the helpline, Analyzing reviews of various colleges Bug or report support. <p>8.2 OFFLINE</p> <p>What kind of actions do customers take offline?</p> <p>Predicting college and find the possibilities and according to their eligibility allot the seats</p>
<p>4. EMOTIONS: BEFORE / AFTER BE</p> <p>BEFORE:</p> <p>Insecure, customer would not know the process, suffering to select the right University, total time for the entrance allotment was more.</p> <p>AFTER:</p> <p>Secure, Used friendly, easy to use, Avoids data redundancy and inconsistency, fast, efficient, and reliable. chance of occurrence of error is less.</p>	<ol style="list-style-type: none"> Predicting right college which falls under student eligibility criteria finding possibility to get into the college Admission arrived in a quicker way to get into the college. Rightful identity mentor choosing the right institutions. Student predict the rightful environment for their graduation. 	

Figure 5 Problem Solution fit

4. REQUIREMENT ANALYSIS

4.1 Functional requirement

Following are the functional requirements of the proposed solution

FR NUMBER	FUNCTIONAL REQUIREMENT	SUB TASKS
FR 1	Upload the basic marks and cutoff scores for the particular college/university.	enter the marks based on subjectwise along with cut off scores for criteria satisfaction.
FR 2	Predict colleges based on marks and cut off.	Predicts the colleges with the help of trained dataset.
FR 3	Top good university prediction based on marks.	Enlists all the top good universities based on marks and cut off scores.

4.2 Non-Functional requirement

Following are the non-functional requirements of the proposed solution

FR NUMBER	NON-FUNCTIONAL REQUIREMENT	SUB TASKS
NFR 1	Usability	<ul style="list-style-type: none">• No training is required to use the website.• The results from the predictor should not take more than 30 seconds.
NFR 2	Security	<ul style="list-style-type: none">• The system shall provide password protected access to the website to all users –students & admins both.
NFR 3	Reliability	<ul style="list-style-type: none">• University Application process itself being a tedious task students needs lots of determination for completing overall application process.• It seems students have to work on lots of things when he/she prepares for application process.
NFR 4	Performance	<ul style="list-style-type: none">• This system can support any number of users at a time.• The mean time to view a webpage over a 56 Kbps modem connection shall not exceed 5 seconds.

5.PROJECT DESIGN

5.1 Data Flow Diagrams

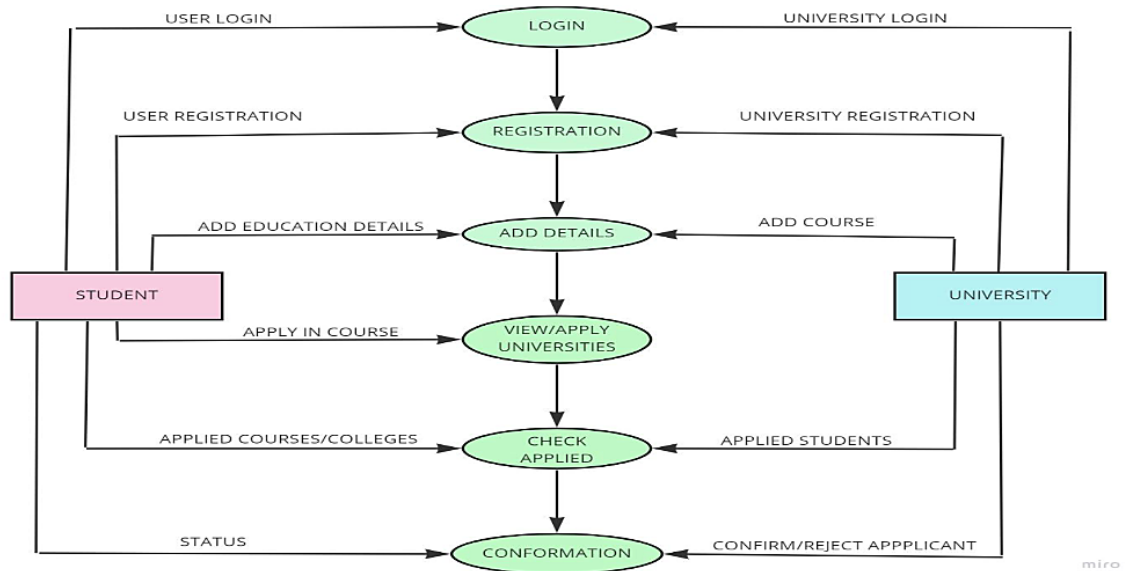


Figure 6 Data flow diagram

5.2 Solution & Technical Architecture

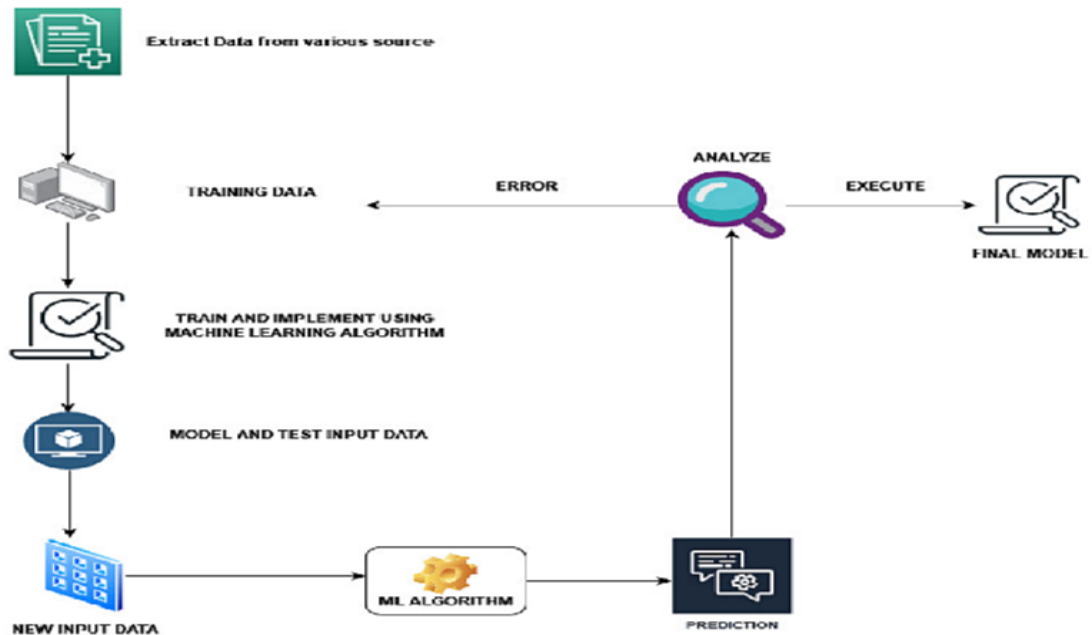


Figure 7 Solution & Technical Architecture

5.3 User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account /dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can login using my email and password	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can log into the application by entering my email and password	High	Sprint-1
	Dashboard	USN-6	As a user I can register into the application	I can use my personal details to register	Medium	Sprint-1

		USN-7	As a user I can apply details	I can use my 12th cut-off	High	Sprint-1
		USN-8	As a user I can view/apply universities	I can check eligibility college and apply	High	Sprint-1
		USN-9	As a user I can check applied	I can check availability course in eligible college and apply	High	Sprint-1
		USN-10	As a user I can check my conformation	I can click confirm/decline	High	Sprint-1
Customer (Webuser)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account /dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can login using my email and password	Medium	Sprint-1

	Login	USN-5	As a user, I can log into the application by entering email & password	I can log into the application by entering my email and password	High	Sprint-1
	Dashboard	USN-6	As a user I can register into the application	I can use my personal details to register	Medium	Sprint-1
		USN-7	As a user I can apply details	I can use my 12th cut-off	High	Sprint-1

		USN-8	As a user I can view/apply universities	I can check eligibility college and apply	High	Sprint-1
		USN-9	As a user I can check applied	I can check availability course in eligible college and apply	High	Sprint-1
		USN-10	As a user I can check my conformation	I can click confirm/decline	High	Sprint-1
Customer Care Executive	Mail	USN-1	As a customer care executive, I can access customer's information and to solve their queries and issues	I can access customer's information and to solve their queries and issues	Medium	Sprint-1
Administrator	Dashboard	USN-1	As an admin I can check the login credential of user	I can check the login credential of user and allow the user into the app	High	Sprint-1

		USN-2	As a adminI can check the registration detailsof user	I can check theregistration details of user	Medium	Spint-1
		USN-3	As a adminI can add courses to user	I can add courses to user	Medium	Sprint-1
		USN-4	As a admin I can check total number of userapplied to particular college and courses	I can check totalnumberof user applied to particular college and courses	High	Sprint-1
		USN-5	As a adminI can accept and reject the eligibleand not eligible user respectively	I can publish the result's ofuser	High	Sprint-1

6.PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I will beable to register myapplication by entering my email,password, and confirming my password.	2	High	Dhanuja V

Sprint-1		USN-2	As a user, I will be able to receive an email confirmation after registration.	1	High	Gomathi G
Sprint-2		USN-3	As a user, I can register for the application through Gmail.	2	Low	Keerthana R
Sprint-1		USN-4	As a user, I can register for the application by entering details by self.	2	Medium	Manisha M
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Gomathi G
	Dashboard					

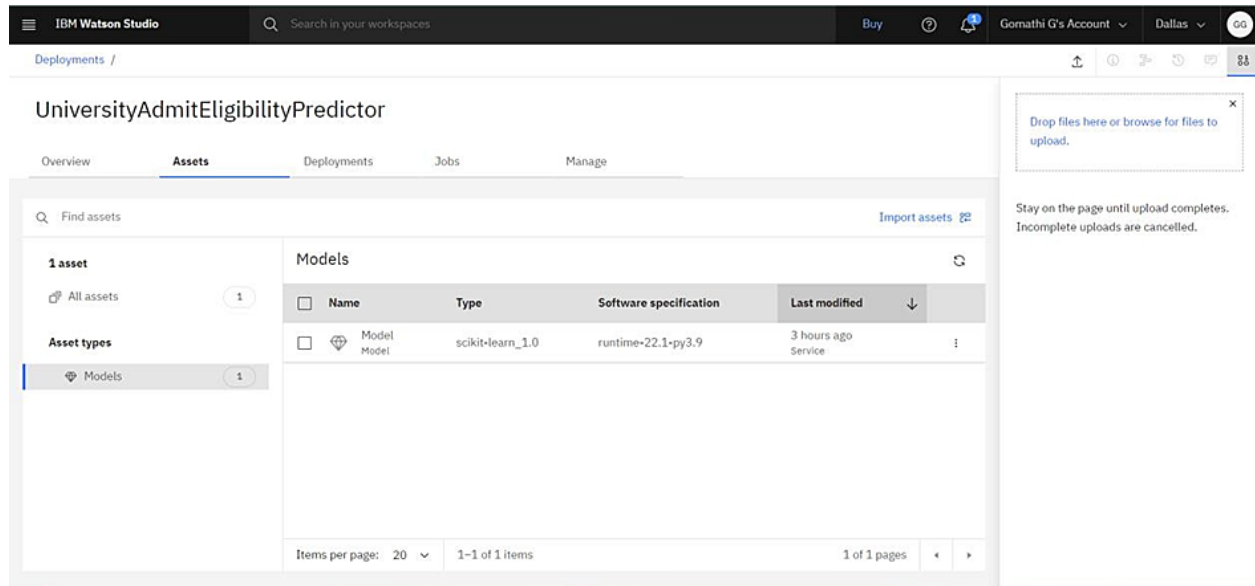
6.2 Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	04 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

7.CODING & SOLUTIONING (Explain the features added in the project along with code)

7.1 Feature 1

The model has been deployed using IBM Watson Machine learning service.



7.2 Database Schema (if Applicable)

```
In [9]: data.info()

RangeIndex: 400 entries, 0 to 399
Data columns (total 8 columns):
 #   Column              Non-Null Count  Dtype  
---  -
 0   GRE Score           400 non-null    int64  
 1   TOEFL Score         400 non-null    int64  
 2   University Rating   400 non-null    int64  
 3   SOP                 400 non-null    float64 
 4   LOR                 400 non-null    float64 
 5   CGPA                400 non-null    float64 
 6   Research            400 non-null    int64  
 7   Chance of Admit     400 non-null    float64 
dtypes: float64(4), int64(4)
memory usage: 25.1 KB
```

```
In [24]: df['result']=pd.cut(df.Chance_of_Admit_,bins=[0,0.80,1],labels=['No','Yes'])
df
```

```
Out[24]:
```

	GRE_Score	TOEFL_Score	University_Rating	SOP	LOR_	CGPA	Research	Chance_of_Admit_	result
0	337	118	4	4.5	4.5	9.65	1	0.92	Yes
1	324	107	4	4.0	4.5	8.87	1	0.76	No
2	316	104	3	3.0	3.5	8.00	1	0.72	No
3	322	110	3	3.5	2.5	8.67	1	0.80	No
4	314	103	2	2.0	3.0	8.21	0	0.65	No
...
395	324	110	3	3.5	3.5	9.04	1	0.82	Yes
396	325	107	3	3.0	3.5	9.11	1	0.84	Yes
397	330	116	4	5.0	4.5	9.45	1	0.91	Yes
398	312	103	3	3.5	4.0	8.78	0	0.67	No
399	333	117	4	5.0	4.0	9.66	1	0.95	Yes

400 rows × 9 columns

8. TESTING

8.1 Test Cases

Test Id	Feature Type	Component	Test Scenario	Prerequisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	Bug ID	Executed By
IndexPage_TC_001	UI	Index Page	Verify if user could able to give input in the input field	HTML,CSS	1. Enter URL and click go 2.Check all the elements in the UI		UI components and the input fields have to be function properly	Working as Expected	Pass	Working_Good	N		Manisha M
IndexPage_TC_002	Functional	Index Page	Verify if user could be able to authenticated into the home page	HTML,CSS	1.Check with all the elements in the UI that it is displayed or not 2. Need to click on the predictor tab in the navigation bar.		UI components has to work Properly and user could be able to navigate to the predictor tab properly	Working as Expected	Pass	Working_Good	N		Dhanuja V
PredictPage_TC_003	UI	Predict Page	Verify if the UI elements in the Prediction page are function properly or not.	HTML,CSS, FLASK	1.Check with all the elements in the UI that it is displayed or not		UI components has to work Properly	Working as Expected	Pass	Working_Good	N		Manisha M
PredictPage_TC_004	Functional	Predict Page	Enter the values in the input fields and click on	FLASK	1. Need to enter values for each attribute	187 96 4 4 4	Navigate to the prediction page and do predict	Working as Expected	Pass	Working_Good	N		Dhanuja V

			predict		s and click on predict.	9 No Research	the accurate result						
Output Page_TC _005	Function al	Chance Page	Verify if it is <u>navigates</u> to chance page only if the appropriate values are entered.	FLASK	1. Need to enter values for each <u>attribute</u> s and click on predict. 2. If predictio n equals one, chance page is displayed .	<u>Predictio n</u> : you have a chance	Redirect to Chance Page	Working as Expecte d	Pass	<u>Working Good</u>	N		Keerthan a R
Output Page_TC _006	Function al	No Chance Page	Verify if it is <u>navigates</u> to no chance page only if the appropriate values are entered.	FLASK	1. Need to enter values for each <u>attribute</u> s and click on predict. 2. If predictio n equals zero, chance page is displayed .	<u>Predictio n</u> : you don't have a chance	Redirect to No chance page	Working as Expecte d	Pass	<u>Working Good</u>	N		Gomathi G

8.2 User Acceptance Testing

8.2.1 Purpose of the document

The purpose of this document is to briefly explain the test coverage and open issues of the University Admit Eligibility Predictor project at the time of the release to User Acceptance Testing

8.2.2 Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	12	3	4	3	20
Duplicate	1	0	3	0	4
External	3	3	0	1	7
Fixed	10	2	4	19	36
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	26	13	15	25	78

8.3 Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Index page	10	0	0	10
Predict page	4	0	0	4

9. RESULTS

9.1 Performance Metrics

S.N O	PARAMETERS	VALUES	SCREENSHOTS
1	Metrics	Regression Model: MAE - , MSE -	

, RMSE -, R2
score -

**Classification
Model:**
Confusion
Matrix

- ,

Accuracy Score- &
Classification Report

```
from sklearn.metrics import r2_score, mean_squared_error, mean_absolute_error
from math import sqrt
RMSE=float(format(np.sqrt(mean_squared_error(y_test, rf_y_pred))))
MAE=mean_absolute_error(y_test, rf_y_pred)
MSE=mean_squared_error(y_test, rf_y_pred)
R2=r2_score(y_test, rf_y_pred)

print('RMSE :', RMSE, '\nMSE :', MSE, '\nMAE :', MAE, '\nR2 score:', R2)
```

RMSE : 0.25
MSE : 0.0625
MAE : 0.0625
R2 score: 0.6865203761755486

```
[53] corr_matrix = df.corr()
corr_matrix
```

	GRE_Score	TOEFL_Score	University_Rating	SOP	LOR	CGPA	Research	Chance_of_Admit
GRE_Score	1.000000	0.835977	0.666976	0.612831	0.387908	0.832800	0.382591	0.852913
TOEFL_Score	0.835977	1.000000	0.685560	0.657861	0.387725	0.829417	0.409658	0.791594
University_Rating	0.666976	0.685560	1.000000	0.734323	0.807023	0.740479	0.447703	0.711200
SOP	0.612831	0.657861	0.734323	1.000000	0.720900	0.730164	0.444028	0.675732
LOR	0.387908	0.387725	0.807023	0.720900	1.000000	0.676211	0.369858	0.646988
CGPA	0.832800	0.829417	0.740479	0.730164	0.676211	1.000000	0.521454	0.673208
Research	0.382591	0.409658	0.447703	0.444028	0.369858	0.521454	1.000000	0.553252
Chance_of_Admit	0.852913	0.791594	0.711200	0.675732	0.646988	0.673208	0.553252	1.000000

```
Fig = plt.figure(figsize=(14,10))
sns.heatmap(corr_matrix, annot=True)
plt.show()
```



```
[56] from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score
rf = RandomForestClassifier()
trained_model = rf.fit(X_train,y_train)
```

```
[57] import pickle
pickle.dump(rf,open('university.pkl','wb'))
```

```
[58] rf_y_pred = rf.predict(X_test)
rf_accuracy = accuracy_score(rf_y_pred,y_test)
print("Accuracy: ",rf_accuracy*100,"%")
```

Accuracy: 92.8125 %

2	Tune the Model	Hyperparameter Tuning - Validation Method	<pre> from sklearn.linear_model import LogisticRegression from sklearn.model_selection import GridSearchCV c_space = np.logspace(-5, 8, 15) param_grid = {'C': c_space} logreg = LogisticRegression() logreg_cv = GridSearchCV(logreg, param_grid, cv = 5) logreg_cv.fit(X_train, y_train) print("Tuned Logistic Regression Parameters: {}".format(logreg print("Best score is {}".format(logreg_cv.best_score_)) </pre> <p>Tuned Logistic Regression Parameters: {'C': 0.4393970560760 Best score is 0.9</p>
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10. ADVANTAGES & DISADVANTAGES

ADVANTAGES :

- It gives an overall accuracy of 94%, which is really high.
- The dataset consists of all possible attributes needed for prediction.
- Confidence booster if results are positive.
- Students can also change their scores to see how they affect the overall prediction results and focus more on that area.

DISADVANTAGES :

- The model is built in such a way that the prediction is positive only if the chance of admit percent is greater than 80%. Even if the result is 79%, the prediction would be NO.
- The complexity of the examinations is not considered. Therefore the results may vary every year for the same set of attribute.
- The dataset used for training the model is of comparatively small size. Therefore, the model cannot be relied on to take accurate real-time decisions.

11. CONCLUSION

The dataset is trained with different ML model. The ML models used to train our dataset are KNN, Logistic Regression, Random Forest, SVM each having accuracy of 86%, 88%, 93%, 89% respectively. Random forest algorithm is finally selected to be used in our model. The Machine Learning model is integrated using flask for our web application. At long last, understudies can have an open-source AI model which will assist the understudies with knowing their opportunity of entrance into a specific college with high exactness

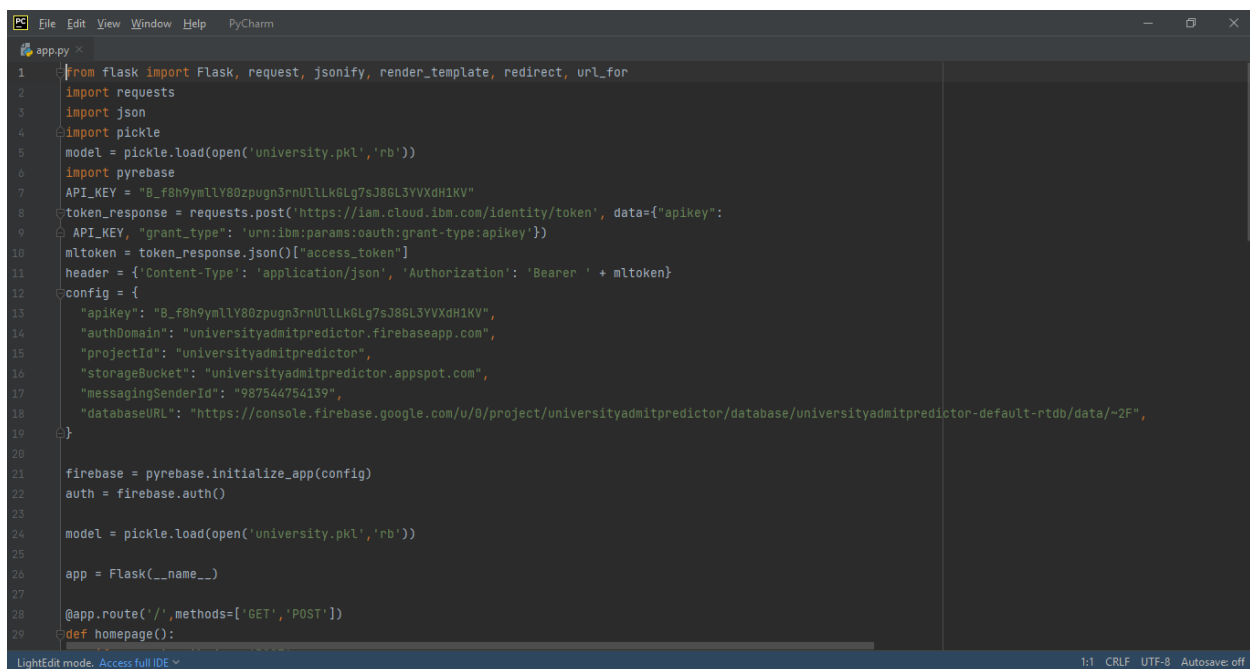
12. FUTURE SCOPE

A real-time project can be developed by gathering data from institutions. The data can be processed and trained using big data frameworks like spark and MLlib can be used to train the data using different machine learning models.

13. APPENDIX

Source

App.py



```
1 from flask import Flask, request, jsonify, render_template, redirect, url_for
2 import requests
3 import json
4 import pickle
5 model = pickle.load(open('university.pkl','rb'))
6 import pyrebase
7 API_KEY = "B_f8h9ymllY80zpugn3rnUllk6Lg7sJ86L3YVXdH1KV"
8 token_response = requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":
9 API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'})
10 mltoken = token_response.json()["access_token"]
11 header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}
12 config = {
13     "apiKey": "B_f8h9ymllY80zpugn3rnUllk6Lg7sJ86L3YVXdH1KV",
14     "authDomain": "universityadmitpredictor.firebaseio.com",
15     "projectId": "universityadmitpredictor",
16     "storageBucket": "universityadmitpredictor.appspot.com",
17     "messagingSenderId": "987544754139",
18     "databaseURL": "https://console.firebase.google.com/u/0/project/universityadmitpredictor/database/universityadmitpredictor-default-rtdb/data/~2F",
19 }
20
21 firebase = pyrebase.initialize_app(config)
22 auth = firebase.auth()
23
24 model = pickle.load(open('university.pkl','rb'))
25
26 app = Flask(__name__)
27
28 @app.route('/', methods=['GET', 'POST'])
29 def homepage():
```

```
PyCharm
app.py
29 def homepage():
30     if request.method == 'POST':
31         unsuccessful = 'Please check your credentials'
32
33         email = request.form['name']
34         password = request.form['pass']
35
36         try:
37             auth.sign_in_with_email_and_password(email, password)
38             return render_template('index.html')
39         except:
40             auth.create_user_with_email_and_password(email, password)
41             auth.sign_in_with_email_and_password(email, password)
42             return render_template('index.html')
43
44     return render_template('login.html')
45
46 @app.route('/predict', methods=['GET', 'POST'])
47 def predict():
48     if request.method == 'POST':
49         gre = request.form['gre']
50         toefl = request.form['toefl']
51         universityNumber = request.form['universityNumber']
52         sop = request.form['sop']
53         lor = request.form['lor']
54         cgpa = request.form['cgpa']
55         research = request.form['research']
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Model.py

```
File Edit View Window Help model.py - ...Documents\libm
app.py x model.py x about.html x chance.html x index.html x nochance.html x
1 import numpy as np
2 import pandas as pd
3 import matplotlib.pyplot as plt
4 import seaborn as sns
5 import pickle
6 data=pd.read_csv('Admission_Predict.csv')
7 data.drop(["Serial No."],axis=1,inplace=True)
8 df = pd.DataFrame(data)
9 df.columns = df.columns.str.replace(' ', '_')
10 df['result']=pd.cut(df.Chance_of_Admit_,bins=[0,0.80,1],labels=['No','Yes'])
11 independent = data.iloc[:,0:7].values
12 dependent = data.iloc[:,8:].values
13 from sklearn.model_selection import train_test_split
14 X_train, X_test, y_train, y_test = train_test_split(independent, dependent, random_state=0, train_size = .2)
15 from sklearn.ensemble import RandomForestClassifier
16 rf = RandomForestClassifier()
17 trained_model = rf.fit(X_train, y_train)
18 pickle.dump(rf, open('university.pkl','wb'))

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Index.html

```
File Edit View Window Help index.html - ...libm/templates
app.py x model.py x about.html x chance.html x index.html x nochance.html x
1 <!DOCTYPE html>
2 <html>
3
4 <body background="https://oge.tmu.edu.tw/admission/apply/graduation-hat-with-degree-paper-on-a-stack-of-book/">
5 <head>
6 <style>
7 body {
8 background-repeat: no-repeat;
9 background-attachment: fixed;
10 background-size: 100% 100%;
11 }
12
13 form,h2,h3 {
14 padding-top: 10px;
15
16 padding-left: 100px;
17 padding-right: 40px;
18 }
19 </style>
20 <title>University Admit Eligibility Predictor</title>
21
22
23 </head>
24 <h2 style="text-align: center;"><font size="+2">UNIVERSITY ADMISSION PREDICTION SYSTEM</font></h2>
25 <h3><font size="+1">Enter your details and get probability of your admission</font></h3>
26 <form action="/"method="POST">
27 <br>
28 <font size="+1">Enter GRE score <input id="gre" type="number" name="gre" required="required"></font>
29 <br><br>

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```

```
PC File Edit View Window Help index.html - ...ibm/templates
app.py x model.py x about.html x chance.html x index.html x nochance.html x
33 <input id="universityNumber" type="radio" id="1" name="universityNumber" value="1">
34 <label for="1">1</label><br>
35 <input type="radio" id="2" name="universityNumber" value="2">
36 <label for="2">2</label><br>
37 <input type="radio" id="3" name="universityNumber" value="3">
38 <label for="3">3</label><br>
39 <input type="radio" id="4" name="universityNumber" value="4">
40 <label for="4">4</label><br>
41 <input type="radio" id="5" name="universityNumber" value="5">
42 <label for="5">5</label><br>
43 <br>
44 <font size="+1">Enter SOP <input id="sop" type="number" name="sop" min="1" max="5" required="required"></font>
45 <br><br>
46 <font size="+1">Enter LOR <input id="lor" type="number" name="lor" min="1" max="5" required="required"></font>
47 <br><br>
48 <font size="+1">Enter CGPA <input id="cgpa" type="number" name="cgpa" required="required"></font>
49 <br><br>
50 <font size="+1">Research</font><br>
51 <input id="research" type="radio" id="researchDone" name="research" value="1">
52 <label for="research">Research</label><br>
53 <input id="noresearch" type="radio" name="research" value="0">
54 <label for="noresearch">No Research</label><br>
55 <br>
56 <button type="submit" value="Predict"><font size="+1">Predict</font></button>
57 </form>
58
59 <h2><a href="about.html">Click here to know more about us...</a></h2>
60 </body>
61 </html>
LightEdit mode. Access full IDE v 1:1 CRLF UTF-8 Autosave: off
```

Chance.html

```
PC File Edit View Window Help chance.html - ...ibm/templates
app.py x model.py x about.html x chance.html x index.html x nochance.html x
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <style>
5
6 div.static{
7 position: absolute;
8 top: 100px;
9 left:100px;
10 }
11
12 </style>
13 </head>
14 <body>
15
16 <div class="static">
17 <h2>Predicting Chance of Admission</h2>
18 <p>Prediction: <b ><u>You have a chance</u> </b><b style='...'>6#128077;</b> </p>
19 </div>
20
21 
24 </html>
LightEdit mode. Access full IDE v 1:1 CRLF UTF-8 Autosave: off
```

Nochance.html

```
File Edit View Window Help nochance.html - ...ibm\templates
app.py x model.py x about.html x chance.html x index.html x nochance.html x
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <style>
5
6     div.static{
7         position: absolute;
8         top: 100px;
9         left:100px;
10    }
11    img{
12        position: absolute;
13        top: 150px;
14        right:200px;
15    }
16
17 </style>
18 </head>
19 <body>
20
21 <div class="static">
22 <h2>Predicting Chance of Admission</h2>
23 <p>Prediction: <b><u>You don't have a chance</u> </b><b style='...'>6#128078;</b> </p>
24 </div>
25
26 
29 </html>
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```

GitHub link : <https://github.com/IBM-EPBL/IBM-Project-34836-1660277900>

Project Demo Link : <https://youtu.be/SgjHKKobVKc>