



# UNIVERSITY ADMIT ELIGIBILITY PREDICTOR



## A PROJECT REPORT

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*In partial fulfilment for the award of the degree  
of*

**BACHELOR OF ENGINEERING**

*in*

**COMPUTER SCIENCE AND ENGINEERING**

**DEPARTMENT OF COMPUTER SCIENCE  
AND ENGINEERING**

**MAHENDRA ENGINEERING COLLEGE  
(AUTONOMOUS)**

**Mahendhirapuri, Mallasamudram, Namakkal-637 503.**

**NOVEMBER- 2022**

# **MAHENDRA ENGINEERING COLLEGE**

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## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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Certified that this project report “UNIVERSITY ADMIT ELIGIBILITY PREDICTOR” is the Bonafide work of “ ANBU K (191031007), ARUN KUMAR J(191031009), MOHANRAJ P(191031057), AAKASH KUMAR C (191031001)”

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**DEPARTMENT OF COMPUTER SCIENCE AND  
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**CERTIFICATE OF PROJECT APPROVAL**

This is to certify that the project report titled “**UNIVERSITY ADMIT ELIGIBILITY PREDICTOR**” is the approved record of work done by “**ANBU K (191031007), ARUN KUMAR J(191031009), MOHANRAJ P(191031057), AAKASH KUMAR C (191031001)**” in partial fulfilment for the award of the Degree of **B.E COMPUTER SCIENCE AND ENGINEERING** during the academic year **2022-2023**.

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Submitted for the end semester project viva voice exam held on  
\_\_\_\_\_ at \_\_\_\_\_

**INTERNAL EXAMINER**

**DATE:**

**EXTERNAL EXAMINER**

**DATE:**

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## **ABSTRACT**

The Primary purpose is to discuss the prediction of student admission to university based on numerous factors and using logistic regression. Many prospective students apply for Master's programs. 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. exploration and data analysis, if successful, would allow predictive models to allow better prioritization of the applicants screening process to Master's degree programme which in turn provides the admission to the right condidates the University adimit eligibility predictor System is web based application in which Student can register with their personal as well as marks details for prediction the admission in colleges and the administrator can allot the seats for the student . administrator can add the college details and he batch details. Using this software, the entrance seat allotment become easier and can be implemented using system. The main advantage of the project is the computerization of the entrance seat allotment process .Administrator has the power for the allotment .he can add the allotted seats into the system . The total time for the entrance allotment becames lesser and the allotment process becames faster. A machine leaning based system built on a linear regression model using the data set available on Kaggle for predicting chance of admission for Indian student hoping to pursue their post graduate studies aborad.

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## LIST OF ABBREVIATIONS

<b>CF</b>	Colloborative Filtering
<b>RBF</b>	Rule Based Filtering
<b>DFD</b>	Data Flow Diagram
<b>ER</b>	Entity Relationship
<b>UML</b>	Unified Modelling Language
<b>PHP</b>	Hypertext Preprocessor
<b>XAMPP</b>	X-operating system,Apache,Mysql,PhP,Perl
<b>DB</b>	Data Base

# UNIVERSITY ADMIT ELIGIBILITY PREDICTOR

**TEAM ID: PNT2022TMID16408**

**Project Link:** <http://ibmsmart.pythonanywhere.com/home>

## **1. INTRODUCTION**

### **1.1 Project Overview**

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 in a particular university. This analysis should also help students who are currently preparing or will be preparing to get a better idea.

### **1.2 Purpose**

A persons education plays a vital role in their life. While planning for education students often have several questions regarding the courses, universities, job opportunities, expenses involved, etc. Securing admission in their dream university is one of their main concerns. It is seen that often students prefer to pursue their education from universities which have global recognition.

## **2. LITERATURE SURVEY**

when it comes to international students the first choice of the majority of them is the United States of America. With the majority of worlds highly reputed universities, wide range of courses offered in every sector, highly accredited education system and teaching, scholarships provided to students, best job market and many more advantages make it the dream destination for the international 1 students. According to research, there are above 8 Million international students studying in more than 1700 public and 2500 private universities and colleges across the USA. (MasterPortal (2017))

### **2.1 Existing problem**

Universities take into consideration different factors like score on aptitude based examination like the General Record Examination (GRE), command over the English language is judged based on their score in English competency test like Test Of English as a Foreign Language (TOEFL) OR International English Language Testing System (IELTS), their work experience in same or other fields, the quality of the Letters Of Recommendation (LOR) and the Statement Of Purpose documents provided by the student etc. Based on the overall profile of the student decision is taken by the universities admission team to admit or reject a particular candidate.

## **2.2 References**

1. Geiser, Saul, and with Roger Studley. "UC and the SAT: Predictive validity and differential impact of the SAT I and SAT II at the University of California." *Educational Assessment* 8.1 (2002): 1-26.
2. Rothstein, Jesse M. "College performance predictions and the SAT." *Journal of Econometrics* 121.1-2 (2004): 297-317.
3. Leonard, David K., and Jiming Jiang. "Gender bias and the college predictions of the SATs: A cry of despair." *Research in Higher education* 40.4 (1999): 375-407.

## **2.3 Problem Statement Definition**

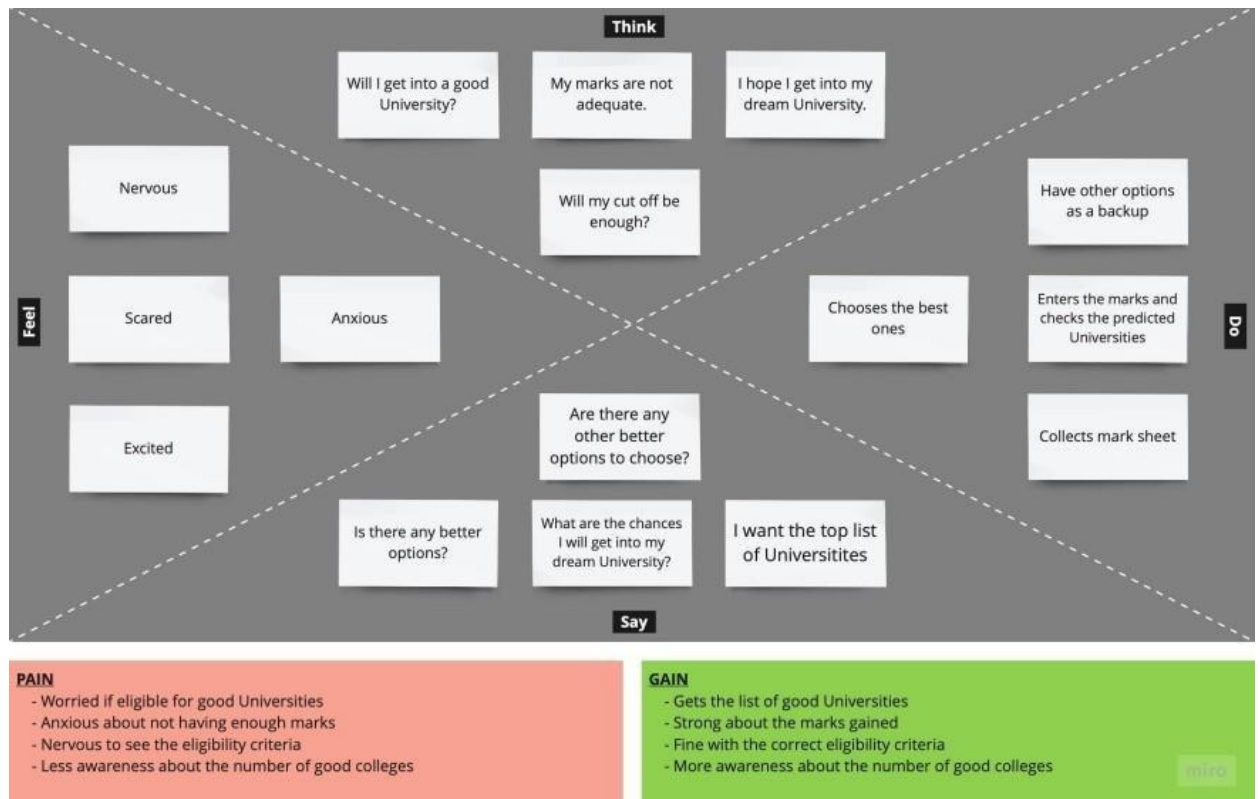
Build an application that predicts the university admission chances of a student powered by machine learning models. Train the model and host it on IBM cloud. The majority of international students studying in the USA are from India and China. In the past decade, India has seen a huge increase in the number of students opting to pursue their education from foreign universities in countries like The USA, Ireland, Australia, Germany, etc. Although there are significant universities and colleges in India, students are finding it difficult to get admission in the highly ranked colleges and also getting a job is a challenge as the ratio of number students to the number work opportunities available is quite high. India is one of the leading counties in the number of software engineers produced each year; it becomes tough for the students to find jobs in elite companies due to high competition. This motivates a good number of students to pursue post-graduation in their field. It is seen that the number of students pursuing Masters in Computer Science field from universities in the USA is quite high; the focus of this research will be on these students.

## **3. IDEATION & PROPOSED SOLUTION**

The project aims to develop an application that uses artificial intelligence with the help of chat bot to customize products for the customers which enhances the fame of ecommerce store and reduce the time which customers spends on choosing products. The application also uses IBM cloud storage for storing objects.

An application that predicts the university admission chances of a student powered by machine learning models. Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. The primary objective of this research is to develop a system to solve the problems the international students are facing while applying for universities in the USA.

### 3.1 Empathy Map Canvas



### 3.2 Ideation & Brainstorming

This task of shortlisting the universities where the student has high chances of admission is difficult for mainly for the international students, so they end up with applying to many universities in hopes of getting admission in few of them thus investing an extra amount of money in the applications. There are several portals and websites which provide information and help to students in shortlisting the universities, but they are not reliable. Most of the students don't take the risk of evaluating the colleges by themselves, and they seek the help of the education consultancy firms to do it for them. Again for this students have to pay a huge amount of fee to the education consultant.

### 3.3 Proposed Solution

Finally, K Nearest Neighbours and Decision Tree algorithms were used as they were found to be the best fit for the system developed. Also, we will be creating a simple user interface which will help the users to input the data related to student profile and get the predicted result for the application based on the profile as output. This research will thus eventually help students saving the extra amount of time and money they have to spend at the education consultancy firms. And also it will help them to limit their number of application to a small number by providing them the suggestion of the universities where they have the best chance of securing admission thus saving more money on the application fees.

### **3.4 Problem Solution fit**

We will be developing a University Admit Eligibility Predictor system which will help the students to predict the chances of their application being selected for a particular university for which they wish to apply based on their profile. Also, the system will provide a recommendation of universities to the student to which the student has a high possibility of getting admission. Multiple machine learning classification algorithms were evaluated to develop the system.

## **4. REQUIREMENT ANALYSIS**

Requirements analysis, also called requirements engineering, is the process of determining user expectations for a new or modified product. These features, called requirements, must be quantifiable, relevant and detailed. In software engineering, such requirements are often called functional specifications. Requirements analysis is critical to the success or failure of a systems or software project. The requirements should be documented, actionable, measurable, testable, traceable, related to identified business needs or opportunities, and defined to a level of detail sufficient for system design.

### **4.1 Functional requirement**

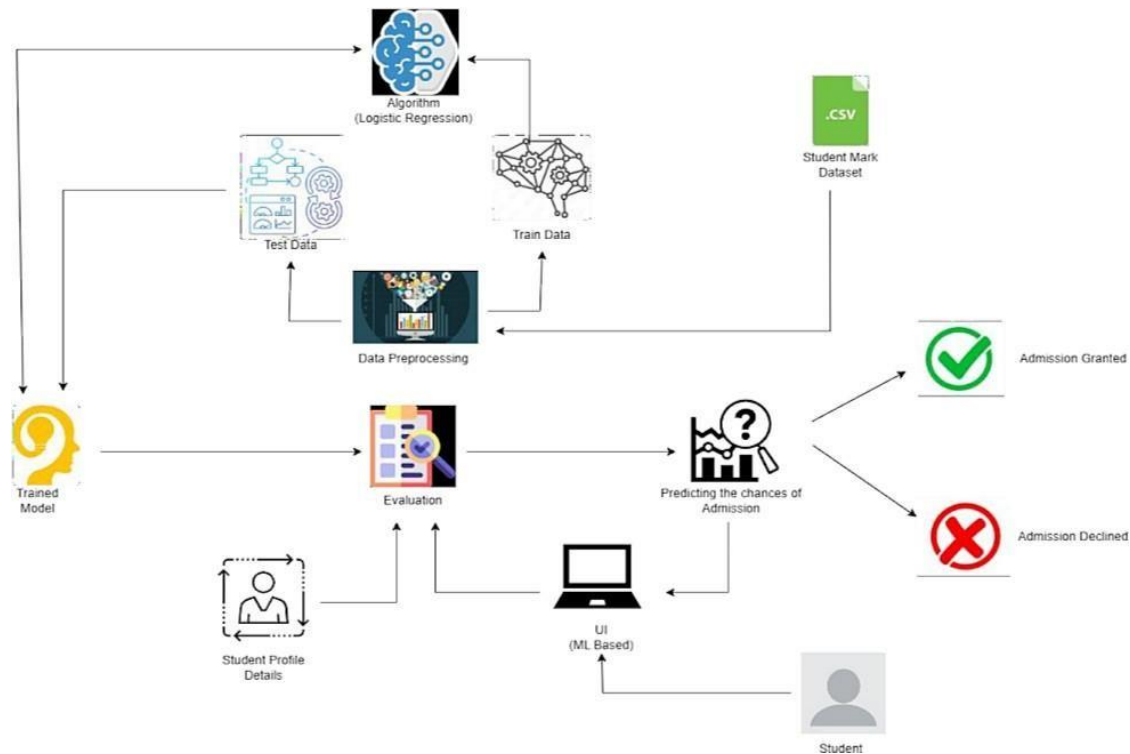
- prediction
- input form
- percentage of chance

### **4.2 Non-Functional requirements**

- Speed
- Security
- Portability
- Compatibility
- Capacity
- Reliability
- Environment
- Localization

## 5. PROJECT DESIGN

### 5.1 Data Flow Diagrams

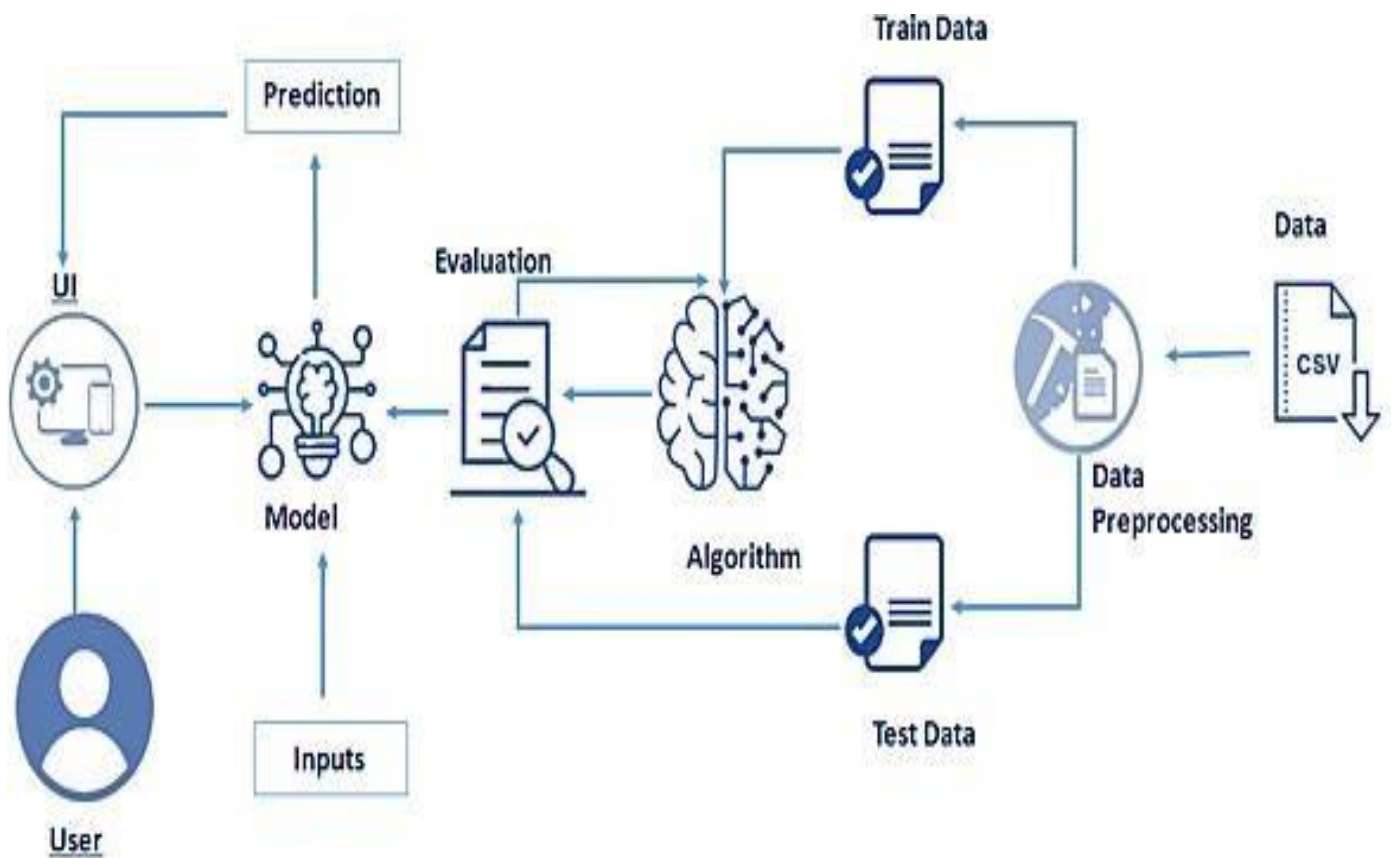


### 5.2 Solution & Technical Architecture

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.

Provide specifications according to which the solution is defined, managed, and delivered.



### 5.3 User Stories

A user story is an informal, natural language description of features of a software system. They are written from the perspective of an end user or user of a system, and may be recorded on index cards, Post-it notes, or digitally in project management software.[1] Depending on the project, user stories may be written by different stakeholders like client, user, manager, or development team.

## 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 be able to register my application by entering my email, password, and confirming my password.	2	High	Karthikeyan S
Sprint-1		USN-2	As a user, I will be able to receive an email confirmation after registration.	1	High	Gowtham D
Sprint-2		USN-3	As a user, I can register for the application through Gmail.	2	Low	Mahesh J
Sprint-1		USN-4	As a user, I can register for the application by entering details by self.	2	Medium	Gokul Kanna
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Ganeshan
	Dashboard					



## 6.2 Sprint Delivery Schedule

### Project Tracker, Velocity & Burndown Chart: (4 Marks)

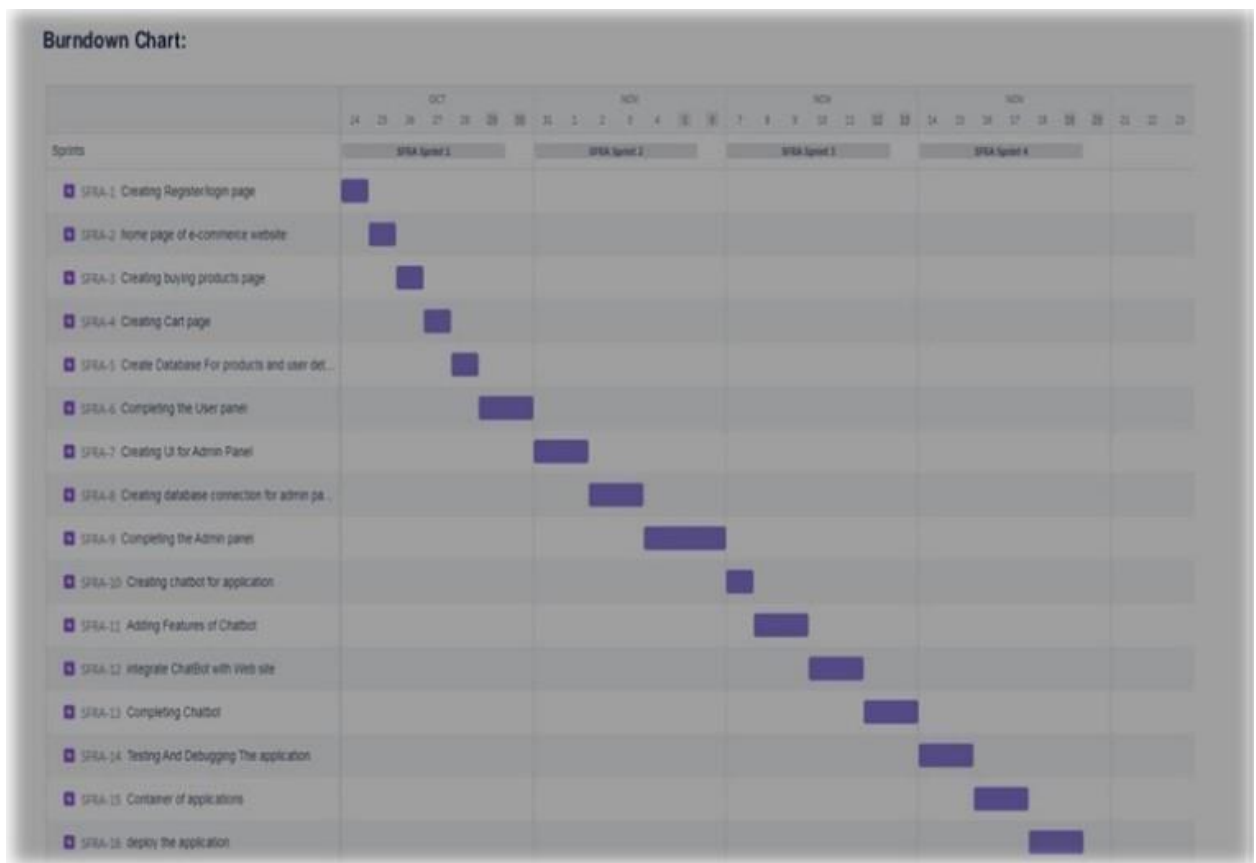
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	30 Oct 2022	02 Sept 2022	20	31 Oct 2022
Sprint-3	20	6 Days	01 Sept 2022	07 Sept 2022	20	05 Sept 2022
Sprint-4	20	6 Days	06 Sept 2022	15 Sept 2022	20	12 Sept 2022

#### Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

## 6.3 Reports from JIRA



**BURNDOWN CHART**

## 7. CODING & SOLUTIONING

### 7.1 Feature 1 - FLASK APP

The following is the flask app code and working

```
1 from flask import Flask, render_template, redirect, url_for, request
2 import requests
3
4 app = Flask(__name__)
5
6 @app.route("/", methods = ['POST', 'GET'])
7 def index():
8     if request.method == 'POST':
9         arr = []
10         for i in request.form:
11             val = request.form[i]
12             if val == ":
```

```

13         return redirect(url_for("demo2"))
14     arr.append(float(val))
15
16     # deepcode ignore HardcodedNonCryptoSecret: <please specify a
    reason of ignoring this>
17     API_KEY = "wf8mge_OQdwVO8ao2kmWCtfxOfLWl8442SH44V85v2Ls"
18     token_response =
    requests.post('https://iam.cloud.ibm.com/identity/token', data={
19 "apikey": API_KEY,
20 "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'
21 })
22     mltoken = token_response.json()["access_token"]
23     header = {'Content-Type': 'application/json', 'Authorization': 'Bearer
    ' + mltoken}
24     payload_scoring = {
25         "input_data": [{"fields": [
26             'GRE Score',
27             'TOEFL Score',
28             'University Rating',
29             'SOP',
30             'LOR ',
31             'CGPA',
32             'Research'],
33             "values": [arr]
34         }]
35
36     response_scoring = requests.post(
37         'https://us-
    south.ml.cloud.ibm.com/ml/v4/deployments/8308fd4c-24a5-46ab-96fa-
    263657ae4ad0/predictions?version=2022-10-18',
38         json=payload_scoring,
39         headers=header
40     ).json()
41
42     result = response_scoring['predictions'][0]['values']
43
44     if result[0][0] > 0.5:
45         return redirect(url_for('chance', percent=result[0][0]*100))
46     else:

```

```

47         return redirect(url_for('no_chance', percent=result[0][0]*100))
48     else:
49         return redirect(url_for("demo2"))
50
51     @app.route("/home")
52     def demo2():
53         return render_template("demo2.html")
54
55     @app.route("/chance/<percent>")
56     def chance(percent):
57         return render_template("chance.html", content=[percent])
58
59     @app.route("/nochance/<percent>")
60     def no_chance(percent):
61         return render_template("noChance.html", content=[percent])
62
63     @app.route('/<path:path>')
64     def catch_all():
65         return redirect(url_for("demo2"))
66
67     if __name__ == "__main__":
68         app.run()

```

## 7.2 Feature 2 - UI

The following is the UI code for the application.

```

1     {% extends 'index.html' %}
2     {% block body %}
3         <div class="p-4">
4             <div class="row mb-3">
5                 <div class="col-4">
6                     <h2 class="text-responsive-h">
7                         Enter your details and get probability of your admission8
9                     <p class="text-responsive">

```

```

10         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 in a particular university. This analysis should also help
students who are currently preparing or will be preparing to get a better idea.
11     </p>
12     <div class="d-flex justify-content-right">
13         
14     </div>
15 </div>
16 <div class="col-8">
17     <div class="card p-2 ms-2 my-2">
18         <div class="card-body">
19             <h5 class="card-title pb-4">
20                 Enter the details
21             </h5>
22             <form action="/" method="post"
id="theForm">
23                 <div class="row mb-3">
24                     <label for="gre" class="col-lg-2
col-form-label">GRE Score:</label>
25                     <div class="col-lg-10">
26                         <input type="number"
class="form-control" id="gre" name="gre" min="250" max="340"
placeholder="250 to 340" required>
27                     </div>
28                     </div>
29                     <div class="row mb-3">
30                         <label for="tofel" class="col-lg-2,col-form-
label">TOFEL Score:</label>
31                         <div class="col-lg-10">
32                             <input type="number"
class="form-control" id="tofel" name="tofel" min="50" max="120"
placeholder="50 to 120" required>
33                         </div>
34                     </div>
35                     <div class="row mb-3">

```

```

36         <label for="university_rating"
class="col-lg-2 col-form-label">University Rating:</label>
37         <div class="col-lg-10">
38             <input type="number"
class="form-control"          id="university_rating"          step="0.01"
name="university_rating" min="1" max="5" placeholder="1 to 5" required>
39             </div>
40         </div>
41         <div class="row mb-3">
42             <label for="sop" class="col-lg-2
col-form-label">SOP:</label>
43             <div class="col-lg-10">
44                 <input type="number"
class="form-control" id="sop" name="sop" step="0.01" min="1" max="5"
placeholder="1 to 5" required>
45             </div>
46         </div>
47         <div class="row mb-3">
48             <label for="lor" class="col-lg-2
col-form-label">LOR:</label>
49             <div class="col-lg-10">
50                 <input type="number"
class="form-control" id="lor" name="lor" step="0.01" min="1" max="5"
placeholder="1 to 5" required>
51             </div>
52         </div>
53         <div class="row mb-3">
54             <label for="cgpa" class="col-lg-2
col-form-label">CGPA:</label>
55             <div class="col-lg-10">
56                 <input type="number"
class="form-control" id="cgpa" name="cgpa" step="0.01" min="5" max="10"
placeholder="5 to 10" required>
57             </div>
58         </div>
59         <fieldset class="row mb-3">
60             <legend class="col-form-label
col-sm-2 pt-0">Research:</legend>

```

```

61         <div class="col-sm-10">
62             <div class="form-check">
63                 <input class="form-check-
input" type="radio"         name="yes_no_radio"   id="gridRadios1" value="1">
64                 <label class="form-check-
label" for="yes_no_radio">
65                     Yes
66                 </label>
67             </div>
68             <div class="form-check">
69                 <input class="form-check-
input" type="radio"         name="yes_no_radio"   id="gridRadios2"  value="0"
checked>
70                 <label class="form-check-
label" for="yes_no_radio">
71                     No
72                 </label>
73             </div>
74         </div>
75     </fieldset>
76     <div class="row lg-3">
77         <div class="col-lg-2 mb-2 me-3">
78             <button type="submit"
class="btn btn-primary" id="button">Predict</button>
79         </div>
80         <div class="col-lg-2"
id="spinner">
81             <div class="spinner-border
text-primary m-1" role="status">
82                 <span class="visually-
hidden">Loading...</span>
83             </div>
84             <div class="spinner-grow
text-primary m-1" role="status">
85                 <span class="visually-
hidden">Loading...</span>

```

```

86                                     </div>
87                                 </div>
88                             </form>
89                         </div>
90                     </div>
91                 </div>
92             </div>
93         </div>
94     <script    type="text/javascript"    src="../static/js/script.js" async></script>
95     { % endblock % }
96
97     { % extends 'index.html' % }
98
99     { % block body % }
100
101     <div class="container text-center p-4">
102         <div class="d-flex justify-content-center">
103
104             <div class="card" style="width: 34rem;">
105                 
107                     <div class="card-body">
108                         <h5 class="card-title">You Have Chance</h5>
109                         <p class="card-text">The model has predicted
110                         that you have <strong>{ { content[0] } }%</strong> chance</p>
111                         <a    href="/home"    class="btn    btn-primary">Go
112                         Back</a>
113                     </div>
114                 </div>
115             </div>
116         </div>
117     </div>
118 { % endblock % }

```



## Enter your details and get probability of your admission

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 in a particular university. This analysis should also help students who are currently preparing or will be preparing to get a better idea.



### Enter the details

GRE Score:

TOFEL Score:

University Rating:

SOP:

LOR:

CGPA:

Research: ☐ Yes ☒ No

## 8. TESTING

### 8.1 Test Cases

Serial No.	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
1	337	118	4	4.5	4.5	9.65	1	0.92
2	324	107	4	4	4.5	8.87	1	0.76
3	316	104	3	3	3.5	8	1	0.72
4	322	110	3	3.5	2.5	8.67	1	0.8
5	314	103	2	2	3	8.21	0	0.65
6	330	115	5	4.5	3	9.34	1	0.9
7	321	109	3	3	4	8.2	1	0.75
8	308	101	2	3	4	7.9	0	0.68
9	302	102	1	2	1.5	8	0	0.5
10	323	108	3	3.5	3	8.6	0	0.45
11	325	106	3	3.5	4	8.4	1	0.52
12	327	111	4	4	4.5	9	1	0.84
13	328	112	4	4	4.5	9.1	1	0.78
14	307	109	3	4	3	8	1	0.62
15	311	104	3	3.5	2	8.2	1	0.61
16	314	105	3	3.5	2.5	8.3	0	0.54
17	317	107	3	4	3	8.7	0	0.66
18	319	106	3	4	3	8	1	0.65
19	318	110	3	4	3	8.8	0	0.63
20	303	102	3	3.5	3	8.5	0	0.62
21	312	107	3	3	2	7.9	1	0.64
22	325	114	4	3	2	8.4	0	0.7
23	328	116	5	5	5	9.5	1	0.94
24	334	119	5	5	4.5	9.7	1	0.95
25	336	119	5	4	3.5	9.8	1	0.97
26	340	120	5	4.5	4.5	9.6	1	0.94
27	322	109	5	4.5	3.5	8.8	0	0.76

## 8.2 User Acceptance Testing

User Acceptance Testing (UAT) is a type of testing performed by the end user or the client to verify/accept the software system before moving the software application to the production environment. UAT is done in the final phase of testing after functional, integration and system testing is done.

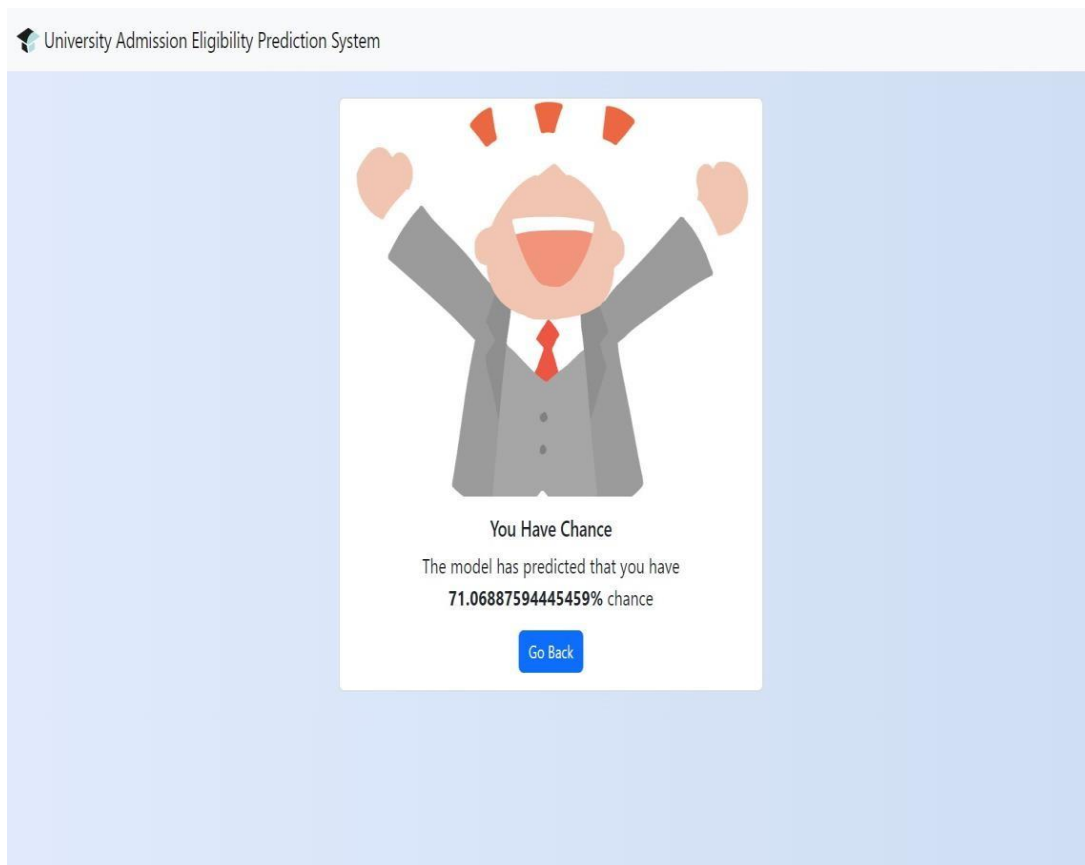
The User Acceptance of this product is not surveyed enough to give a solid conclusion. The theoretical and hypothetical acceptance is calculated to be high enough to conclude that this product is usable and valuable.

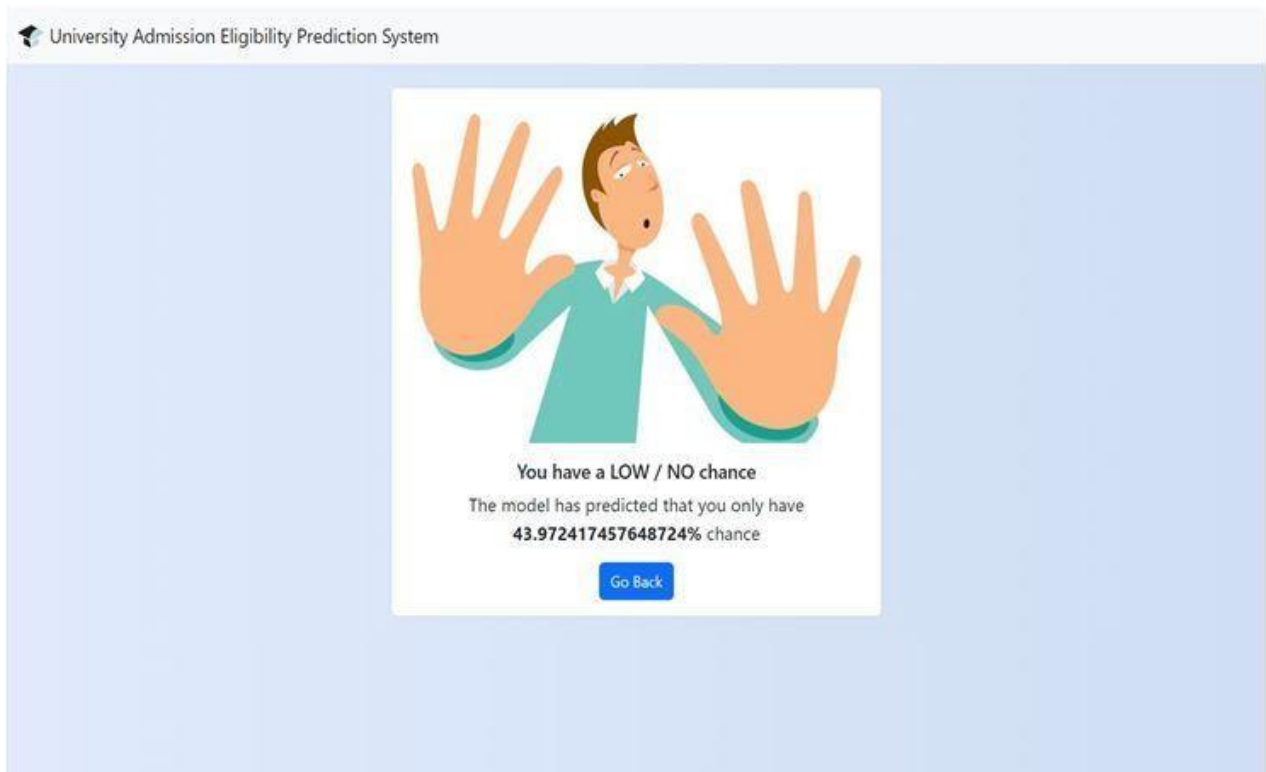
## 9. RESULTS

### 9.1 Performance Metrics

The Performance is the Accuracy of the model trained. The training accuracy of the model is 92%.

The testing accuracy of the model is 89%.





## 10. ADVANTAGES & DISADVANTAGES

### > ADVANTAGE

1. Know the percentage
2. Lower investigation
3. Provide Relevant Material
4. Reduce time consumption
5. Good user experience

### > DISADVANTAGE

1. Significant investments required
2. Inable to capture changes
3. Privacy concerns

## 11. CONCLUSION

We have successfully developed an application using python flask, HTML, CSS. By using the application we can predict whether we can get admission in the desired University or not.

## 12. FUTURE SCOPE

In future we would like to enhance the existing model in such a way that consumer feels the same way when purchasing in store using Virtual reality and other upcoming technologies. Research to improve the accuracy of the system is under progress.

## 13. APPENDIX Source Code GitHub & Project Demo Link

**Project Link:** <http://ibmsmart.pythonanywhere.com/home>

**github:** <https://github.com/IBM-EPBL/IBM-Project-46459-1660747430>

**Demo:**

