1. INTRODUCTION

1.1 Project Overview: University Admit Eligibility Predictor

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 preparing or will be preparing to get a better idea.

1.2 Purpose

It helps students to make right decisions for choosing their college. In which students can register with their personal as well as marks details to predict the admission in colleges and the administrator can allot the seats for the students.

2. LITERATURE SURVEY

2.1 Existing problem

Kruthika et.al., (2021) [1] proposed a University Admission prediction using Machine learning that addresses the Al models to anticipate the opportunity of an understudy issue is vital in educational institutions. Their proposed system helps to understand the events ahead of the time and get an opportunity to get acknowledged. The system has used Machine learning models are linear relapse, Decision tree regress or and random forest regression. The main advantage of the proposed system is that it also focuses on the advanced education both M tech and MBA entrance examination and for the colleges which are available abroad. The disadvantage of the proposed system is that it does not focus on the undergraduate programs.

Vandit Manish Jain.et.al., (2021) [2] proposed a college admission prediction using ensemble machine learning models that can help students to pick the right universities based on their profiles. The system also has a wide variety of dataset containing information about the student profile and university details with a field detailing if the admission result is positive or not. Among many of the algorithms Ensemble machine learning and the predictions have been used compared with KPIs. The main advantage of the proposed system is that it can predict the acceptance rate to a university. And it has a portal which filters and then provides a list of universities that fall into the particular profiles acceptance range.

Annam Mallikharjuna Roa.et.al., (2018) [3] proposed a college admission predictor system which is a web based application. They developed a system in which students can register their marks along with their personal information which helps in prediction with admission in colleges. Administrator can add the college details and the batch details. Using this Application, the entrance seat allotment becomes easier and efficient. The main advantage of the project is the computerization of the entrance seat allotment process. Administrator has the power for the allotment. Admin can add the allotted seats into a file and the details are saved into the system. In which students can register with their personal as well as marks details to predict the admission in colleges and the administrator can allot the seats for the students. Administrators can add the college details and the batch details. Their proposed System helps the entrance seat allotment become easier and can be implemented using the system. Admin can add the allotted seats into a file and the details are saved into the system. The total time for the entrance allotment became lesser and the allotment process became faster. It helps students make decisions for choosing the right college. The disadvantage of the system is that the administrator has the power of the seat allotment.

Chithra Apoorva D A et.al., (2020) [4] proposed a University Admission prediction using Machine Learning. The system may also be modified to a web based application by making node -red modifications. Bayesian Networks algorithms have been used to create a decision support network for evaluating the application submitted by foreign students of the university. The main advantage was to accomplished successfully, as the system allows students to save the lot of time and money that they would spend on educational mentors and applications fees for colleges where they have less chances of getting admissions. The disadvantage of this models based solely on data from Indian Students studying Masters in computer Science in the United states, we considered only few universities with different rankings.

JeevanRatnakar K et.al., (2021) [5] proposed a Graduate Admission prediction using Machine Learning. A comparative approach by developing four machine learning regression models: linear regression, support vector machine, decision tree and random forest for predictive analytics of graduate admission chances. graduate students usually are not knowledgeable of the requirements and the procedures of the postgraduate admission and might spend a considerable amount of money to get advice from consultancy organizations to help them identify their admission chances. A decision tree algorithm based on the test attributes like GRE, TOEFL,CGPA,research papers etc.According to their scores the possibilities of chance of admit is

calculated. The advantage of this model is that it has 93% accuracy.

Swaroop S et.al., (2020) [6] proposed a University Admission prediction using Machine Learning. The system has inspired many students in their profession to pursue postgraduate studies. It is seen that there is quite a many students from universities in the USA pursuing Masters in the field of computer science, the emphasis of this research will be on these students. Many Colleges in the U.S follow similar requirements for student admission. Colleges take different factors into account, such as the ranking on aptitude assessment and academic record review. The main advantage of our goal is to develop a model which will tell the students their chance of admission into a respective university.

Abdul Fatah S (2012) [7] developed a model that can provide the list of universities/colleges where the best suitable for a student is based on their academic records and college admission criteria. The model was developed by applying data mining techniques and knowledge discovery rules to the already existing in-house admission prediction system of the university. (Mane (2016)) conducted a similar research that predicted the chance of a student getting admission in college based on their Senior Secondary School, Higher Secondary School and Common Entrance Examination scores using the pattern growth approach to association rule mining. The performance of both the models was good, the only drawback was the problem statement was single university-centric.

Mishra and Sahoo (2016) [8] conducted a research from a university point of view to predict the likelihood of a student enrolling in the university after they have enquired about courses in the university. They used K-Means algorithm for clustering the students based on different factors like feedback, family income, family occupation, parents qualification, motivation etc. to predict if the student will enroll at the university or not. Depending upon the similarity of the attributes among the students they were grouped into clusters and decisions were made. The objective of the model was to increase the enrollment of the students in the university.

Waters and Miikkulainen (2013) [9] GRADE system was developed to support the admission process for the graduate students in the University of Texas Austin Department of Computer Science. The main objective of the project was to develop a system that can help the admission committee of the university to make better and

faster decisions. Logistic regression and SVM were used to create the model, both models performed equally well and the final system was developed using Logistic regression due to its simplicity. The time required by the admission committee to review the applications was reduced by 74% but human intervention was required to make the final decision on status if the application. (Wanderings et al. (2014)) created a similar model to predict the enrollment of the student in the university based on the factors like SAT score, GPA score, residency race etc. The Model was created using the Multiple Logistic regression algorithm, it was able to achieve an accuracy rate of 67% only.

Sujay S (2020) [10] proposed Graduate Admission Prediction using Machine learning algorithm, Python and Exploratory Data Analysis that is used to analyses and predict the possibility of a person getting an admit for graduate courses in the United States based on various libraries on a Kaggle dataset. This can be done by implementing the Linear Regression which is one of the famous statistical methods in linear algebra. After implementing immense research on the dataset, explore the relationship between each factor which contributes in one or the other way to get an admit. The dataset used contains labelled data. The supervised machine learning algorithm is used for predicting labelled data. The model trains on the data in the dataset and then predicts the data from the user. Finally, using linear regression, allows the program to predict the data from the user.

Inssaf El Guabassi et.al., (2021) [11] developed a A Recommender System for Early Predicting University Admission using four Machine Learning algorithms Linear Regression, Decision Tree, Support Vector Regression, and Random Forest Regression that allows to reduce the human error probability by providing very strong recommendations, predictions, and decisions based on only the input data. The experimental results showed that the Random Forest Regression is the most suitable Machine Learning algorithm for predicting university admission. Also, the Cumulative Grade Point Average (CGPA) is the most important parameter that influences the chance of admission.

Amal AlGhamdi et.al., (2020) [12] developed a Graduate Admission Prediction by using Machine Learning approach to automatically predict the possibility of postgraduate admission to help graduates recognizing and targeting the universities which are best suitable for their profile that three learning strategies of regression to predict the university rate given the students' profile; , linear regression, decision tree, and logistic regression model. These models select the best model in terms of the

highest accuracy rate and the least error. Logistic Regression model shows the most accurate prediction in our experiments. Employing this model to predict the future applicant's university chance of admission. The advantage of the model is giving the limited number of universities that can be considered by a human consultant, this approach might be bias and inaccurate

Prince Golden et.al., (2021) [13] developed a model that can provide a list of universities/colleges where a student is best suited based on their academic record and college admissions criteria. The system can also be adapted to a web application by making node - red modifications. Bayesian Networks algorithms were used to create a decision support network for evaluating applications submitted by international university students. graduated students are usually unfamiliar with graduate admissions requirements and procedures, and may spend significant amounts of money seeking advice from counseling organizations to help them identify their chances of admission.

Dr. Arunakumari B et.al., (2021) [14] developed an automated web application prediction model for a college admission system that can be used for judicious college selection before the allotment.r system is developed considering K-CET. Similarly, this system can be used for the Common Entrance Tests of other states and for other entrance examinations at the national level only by changing the database used. A method that will support an organization to explore the current scenario of student enrollment by predicting student enrollment behavior. It brings an approach like APRIORI examines a student's admissions behavior by considering the student's major and the majors he/she has chosen to enter. The method also presents a naive-bays data mining procedure that predicts which course a student may enroll in. Since the student's choices would be taken into account, the institution will be able to increase the admissions of the field based on the expected results.

Ahmed M Khedra et.al., (2012) [15] proposed a Hybrid recommender system for predicting college admission .The proposed HRSPCA syst em consists of two cascaded hybrid recommender s working together with the help of college predictor, for achieving high performance. The college predictor algorithm uses historical colleges GPA students admission data for predicting most probable colleges. The system analyzes student academic merits, background, student records, and the college admission criteria. Also the 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 Main Advantage of this system is adaptive, since it can be tuned up with other decision makers attributes performing trusted needed tasks faster and fairly.

2.2 References

- 1. Kruthika.et.al(2021), 'University Admission prediction using Machine learning', Am J Glob J Res Rev Vol: 8 No:7.
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- 5. JeevanRatnakar K.et.al(2021) , 'A Graduate Admission prediction', Global Journal of Research and Review .
- 6. Swoop S.et.al(2020), 'A University Admission prediction', International Journal of Recent Technology and Engineering (IJRTE).
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- 9. Waters and Complained (2013), 'University Admission prediction', International Journal of Recent Technology and Engineering (IJRTE).
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- 11. Insane El Guabassi.et Al(2021), 'A Recommender System for Early Predicting University Admission', International Journal of Recent Technology and Engineering (IJRTE).
- 12. Prince Golden.et Al (2021), 'Graduate Admission Prediction', International Journal of Trend in Research and Development (IJTRD).
- 13. Dr. Marijuana B.et Al (2021), 'an automated web application prediction model for a college admission system', International Journal of Trend in Research and Development (IJTRD).
- 14. Ahmed M hexahedra .et Al(2012), 'A Hybrid recommender system for predicting college admission', International Journal of Recent Technology and Engineering (IJRTE).
- 15. Amalia AlGhamdi.et Al(2020), ' A Graduate Admission Prediction', International Journal of Recent Technology and Engineering (IJRTE).

2.3 Problem Statement Definition

Customer Apply Admission in university .I am facing Application related issues .I don't know the eligibility criteria of that university stressful and anxious.

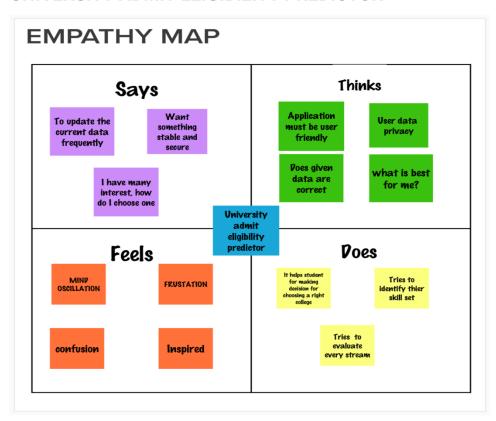
Users get admission into prominent universities. I do not know the procedure, requirements and details of the universities. There are no web apps which is common for all over India for predicting the student eligibility for the university Engaged and frustrated

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS

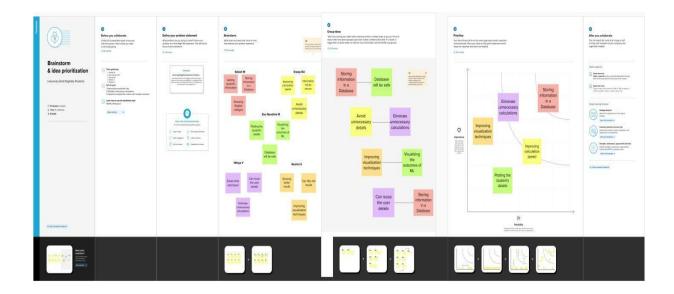
Students are often worried about their chances of admission to University. The aim of this project is to help students in shortlisting universities with their profiles. The predicted output gives them a fair idea about their admission chances to a particular university. This analysis should also help students who are preparing or will be preparing to get a better idea.

UNIVERSITY ADMIT ELIGIBILITY PREDICTOR



3.2 IDEATION AND BRAINSTORMING

Unleash and explore your creative ideas from different angles with templates for mind mapping, brain-writing, SCAMPER, and more. Ideate effortlessly and come together as a team having that in-person feeling as if you were in the same room.



3.3 PROPOSED SOLUTION

Problem Statement: Using the supplied predictive variables (GRE score, TOEFL score, University Rating, etc) to predict the likelihood of admission of a new candidate. Idea / solution description-Uni predict is an AI based application that asks for the users to input their academic transcripts data and calculates their chances of admission into the University Tier that they selected. It also provides an analysis of the data and shows how chances of admissions can depend on various factors. This document describes the scope, objectives and goals of the system. Additionally describing the nonfunctional requirements, this document models the functional requirements with use cases, interaction diagrams and class models.

S.No.	Parameter	Description
1.	Problem Statement (Problem to	The Students who are seeking
	be solved)	Admission into universities needs a way
		to predict the possibility of admission
		and accurately predict the chance of
		admit.To predict probability of student
		marks/grades to get admitted the
		university.

2.	Idea / Solution description	The project would also throw light on university and their optimist prospects. It will help UG graduates in short listing universities for their master degree CGPA, GRE, TOEFL scores. The project will offer a method for analysis the student's grades and comparing them to the grades assigned by the college.
3.	Novelty / Uniqueness	Once our model is trained, we will use the trained model and run it on the test set and predict the output. Then we will compare the predicted results with the actual results that we have to see how our model performed. By using Machine learning models like regression models, the probability of a student getting admission at a desired university is predicted.
4.	Social Impact / Custom Satisfaction	ner The websites will reduce the panic and unawareness among students. It will reduce our time, travel, and costs. It will give the exact prediction based on students.
5.	Business Model (Reven Model)	ue The model used is where students will be able to use features of the app for free. If the application used with more students, it is planned to enhance for subscription for some features.

6.	Scalability of the Solution	The solution proposed will be deployed		
		as web application. So, it is easily		
		accessible by anyone who has internet		
		services and has no specific software		
		and hardware specifications.		
		The data set used for model training can		
		be scaled according to the		
		available universities' admission data.		
1	l .	1		

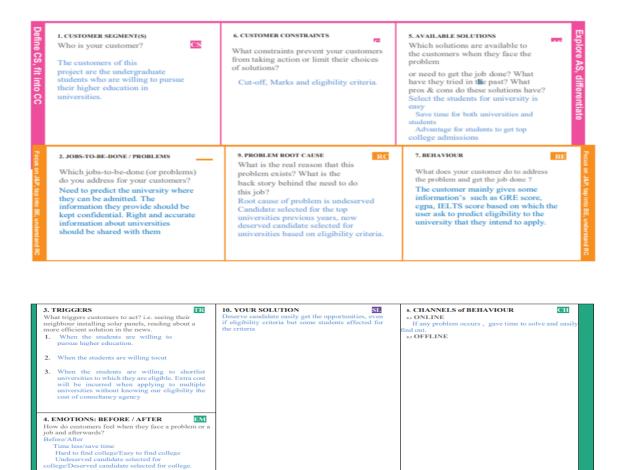
3.4. PROBLEM SOLUTION FIT

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem.

- 1. A Minimum Viable Product (MVP).
- 2. Satisfied early adopters (early panelists) who use your MVP.
- 3. A validated problem that you solve for the early annalists.

The Problem-Solution Fit canvas is based on the principles of Lean Startup, LUM (Lazy User Model) and User Experience design. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why. It is a template to help identify solutions with higher chances of solution adoption, reduce time spent on testing and get a better overview of the current situation.

My goal was to create a tool that translates a problem into a solution, taking into account customer behavior and the context around it. None of the existing canvases or frameworks were giving me an overview and insight into the real customer situation during his/her decision-making process. With this template you will be able to take important information into consideration at an earlier stage and look at problem solving in depth. It increases your chances of finding problem-solution and product-market fit.



4. REQUIREMENT ANALYSIS

4.1. FUNCTIONAL REQUIREMENTS

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1		Registration through Form Registration through Gmail Registration through LinkedIN
FR-2		Confirmation via Email Confirmation via OTP

FR-3	User Requirements	Scraping the information based on the user	
		details	
		Uploading all the needed documents	
FR-4	User Details	GRE score SOP score CV	
		TOEFL score	

4.2 NON-FUNCTIONAL REQUIREMENTS

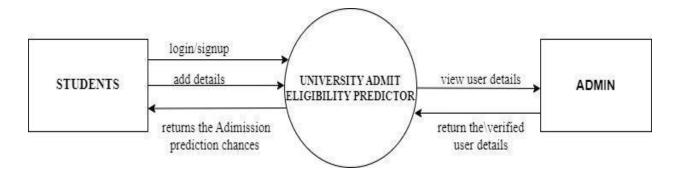
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description		
NFR-1	Usability	Functional and Friendly UI Better visualization tools to help the usunderstand the differences and unique points		
NFR-2	Security	Using OAuth2 for the auto services wil increase the security of the application.		
NFR-3	Reliability	The application will be a web app so it will be easy to access from all the devices.		
NFR-4	Performance	Using cache for storage Cache will significantly reduce the need to perform calculations over and over		
NFR-5	Availability	Web app Accessible from all devices		
NFR-6	Scalability	Improvable security with 2FA auto service Improvable performance with cache preferences Improved ML algorithm for reduced calculation time		

5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAM

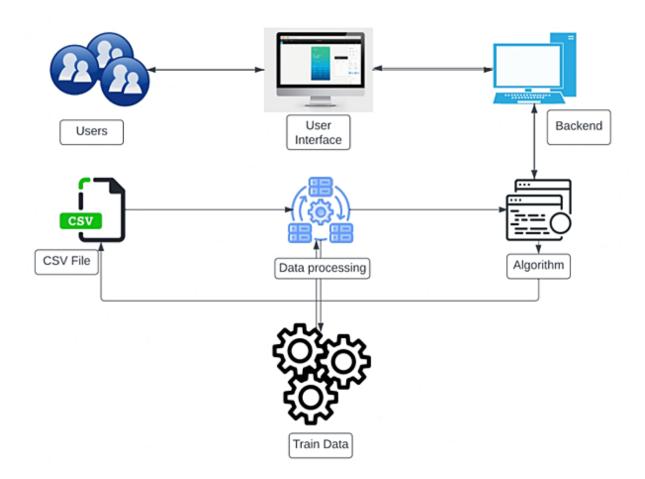
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



Zero Level Data Flow Diagram(0 Level DFD) Of University Admission Management System:

This is the Zero Level DFD of University Admission Management System, where we have elaborated the high level process of University. It has a basic overview of the whole University Admission Management System or process being analyzed or modeled. It has designed to be an at-a-glance view of Course, Degree and Entrance Exam showing the system as a single high-level process, with its relationship to external entities of University Admission and Student. It should be easily understood by a wide audience, including University, Student and Course In zero level DFD of University Admission Management System, we have described the high level flow of the University system.

5.2 SOLUTION AND TECHNICAL ARCHITECTURE



5.3 USER STORIES

	ent (Epic)	Story Numb er	·	criteria	ty	Release
Customer (Mobile user)	Registrati on	USN-1	register for the	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	confirmation email and click		Sprint- 1
		USN-3		and access the		Sprint- 2
	Login	USN-4		,	Medi um	Sprint- 1
	Dashboa rd	USN-5	As a user, I can log into the application by entering email and password	colleges	High	Sprint- 1
Customer (Web user)	Selection	USN-6	As a user, I can confirm the available college or re-apply to other college	_	Medi um	Sprint- 3

	Queries	USN-7	As a user, I can ask	I can ask	High	Sprint- 4
			queries to the	queries		
			system regarding the			
			help / support or			
			technical issues			
Administr	Authentic	USN-8	As a admin, I can	I can access all	High	Sprint- 1
ator	ation		authenticate the login	the user details		
			credentials of user			
	Dashboa	USN-9	As a admin , I can	I can confirm	High	Sprint- 2
	rd		verify the details of	the user		
			the user	updating		
				details		
	Prediction	USN-10	As a admin , I can	I can train the	High	Sprint- 2
			train the user details	data		
			with ML algorithm			
	Chances	USN-11	As a admin ,I can	I can provide	High	Sprint- 3
			solve the queries of	chances		
			users			
	Solution	USN-12	As a admin, I can	I can solve the	High	Sprint- 4
			update the university	queries		
			database depends on			
			the			
			user confirmation			

6. PROJECT PLANNING & SCHEDULING

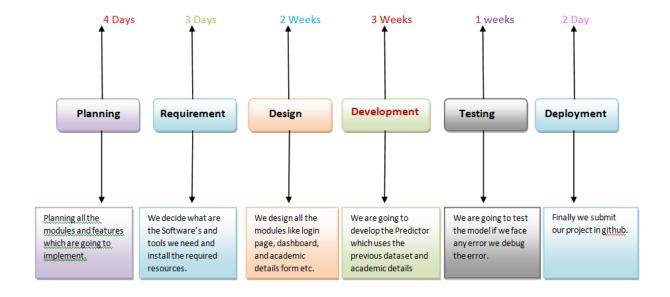
6.1 SPRINT PLANNING AND ESTIMATION

Sprint	Functional	User	User Story / Task	Story	Priori	Team
	Requirement	Story		Points	ty	Members
	(Epic)	Number				
Sprint-1	Registration	USN-1	As a user, I can register	3	High	2
			for the application by			
			entering my email,			
			password, and confirming			

			my password.			
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application		High	1
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email and password		High	4
Sprint-2	Update Profile	USN-4	As a user, after logging in, I will have to update my profile by providing all the required details.		High	3
Sprint-3	Choose University	USN-5	As a user, I will be able to view the list of universities that the students are eligible to apply.		High	5
Sprint-3	Choose Course	USN-6	As a user, I will be able to view the list of courses that the students are eligible to apply.		Medi um	4
Sprint-4	Admission Process	USN-7	As a user, I will be able to view the details of Admission process like date and venue of certification.		Low	2
Sprint-1	Authentication	USN-8	As a admin, the login credential of the user is authenticated my me.		High	3
Sprint-2	Update Profile	USN-9	As a admin, I can verify the user entered details.	2	High	2

Sprint-3	Prediction	USN-10	As a admin, I can test the	5	High	5
			trained ML model by			
			analyzing the user details			
			by ML algorithms like			
			Logistic Regression.			
Sprint-4	Output	USN-11	As a admin, I can upload	3	High	3
			the confirmation of user			
			for the prediction into the			
			Database.			

6.2 SPRINT DELIVERY SCHEDULE



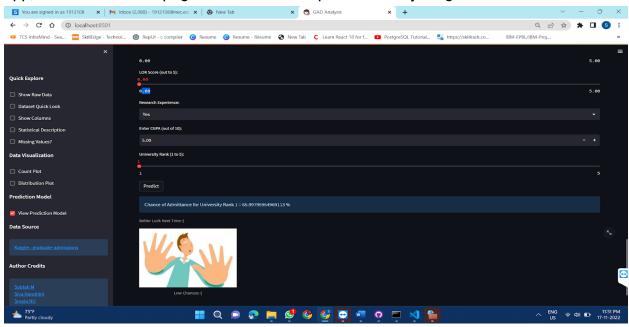
6.3 REPORTS FROM JIRA

Jira reports have been attached in this file JIRA REPORTS JIRA REPORTS

7. CODING & SOLUTIONING

7.1 SIDEBAR

Instead of showing everything to the user, which makes it hard for them to use, We have added a sidebar which contains all of the module names which can be toggled to show them in the app. This approach will make it easier for the end user to use the app, also it makes the page looks clean compared to everything shown.



CODE:

```
st.header('Quick Explore')
st.sidebar.subheader('Quick Explore')
st.markdown("Tick the box on the side panel to explore the dataset.")
if st.sidebar.checkbox("Show Raw Data"):
    st.subheader('Raw data')
    st.write(df)

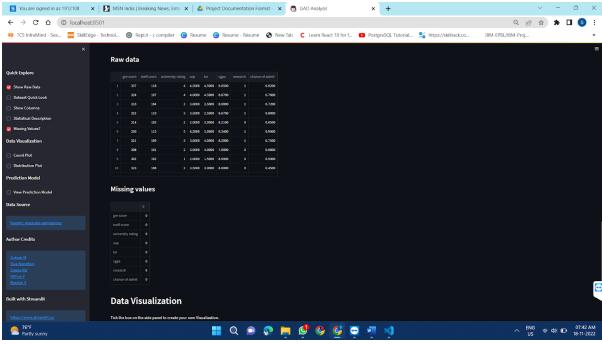
if st.sidebar.checkbox('Dataset Quick Look'):
    st.subheader('Dataset Quick Look')
    st.write(df.head())
```

```
if st.sidebar.checkbox("Show Columns"):
  st.subheader('Show Columns List')
  all_columns = df.columns.to_list()
  st.write(all_columns)
if st.sidebar.checkbox('Statistical Description'):
  st.subheader('Statistical Data Descripition')
  st.write(df.describe())
if st.sidebar.checkbox('Missing Values?'):
  st.subheader('Missing values')
  st.write(df.isnull().sum())
st.header('Data Visualization')
st.markdown("Tick the box on the side panel to create your own Visualization.")
st.sidebar.subheader('Data Visualization')
if st.sidebar.checkbox('Count Plot'):
  st.subheader('Count Plot')
  st.information("If error, please adjust column name on side panel.")
  column_count_plot = st.sidebar.selectbox(
    "Choose a column to plot count.", df.columns[:5])
  fig = sns.countplot(x=column_count_plot, data=of)
  st.set_option('deprecation.showPyplotGlobalUse', False)
  st.pyplot()
if st.sidebar.checkbox('Distribution Plot'):
  st.subheader('Distribution Plot')
  st.information("If error, please adjust column name on side panel.")
  column_dist_plot = st.sidebar.selectbox(
    'Choose a column to plot density.', df.columns[:5])
  fig = sns.distplot(df[column_dist_plot])
  st.set_option('deprecation.showPyplotGlobalUse', False)
  st.pyplot()
# Showing the Prediction Model
st.header('Building Prediction Model')
```

```
st.sidebar.subheader('Prediction Model')
st.markdown("Tick the box on the side panel to run Prediction Model.")
if st.sidebar.checkbox('View Prediction Model'):
    st.subheader('Prediction Model')
    # pickle_in = open('models/Multiple_Linear_Regression.pkl', 'rb')
    # model = pickle.load(pickle_in)
```

7.2 EXTRA MODULES

Instead of only showing the prediction model and the result, we insist on showing more data to the user. For this we added extra modules such as showing raw data, missing values, data description to the sidebar which the user can toggle and see. Since the end user can see the raw data along with the prediction, this will make this app useful not only for prediction models.



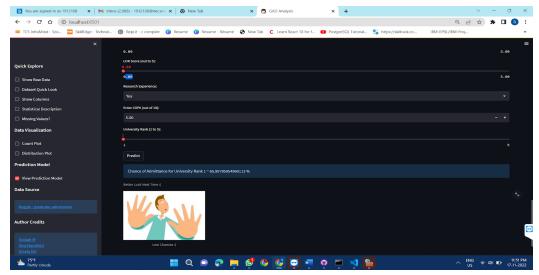
def load_data(nrows):
 of = pd.read_csv(DATA_URL, grows=rows)
 def lowercase(x): return str(x).lower()
 df.set_index('Serial No.', in place=True)
 df.rename(lowercase, axis='columns', in place=True)
 return if
st.title('Lets explore the Graduate Admission Dataset')

8. TESTING

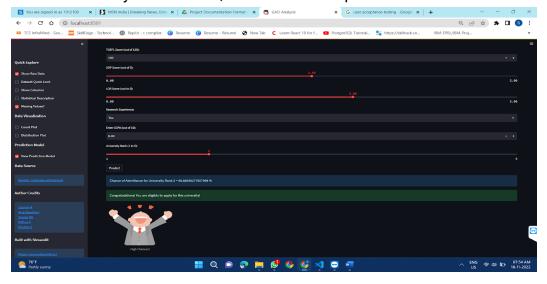
8.1 USER ACCEPTANCE TESTING

For the test cases, we tested two corner cases,

In the first one we made everything low as possible and the expected result was 'no chance'



The second one, we have given all the inputs higher than the university rank which is set to 2 by default, The expected result if 'accepted'.



8.2 TEST CASES

Action	Expected result	Test case Pass / Fail
Low TOEFL score	No chance	Pass
Low CGPA score	No chance	Pass
High uni rank with medium scores	No chance	Pass
SOP score too low	No chance	Pass

Action	Expected result	Test case Pass / Fail
Low TOEFL score	No chance	Pass
Low CGPA score	No chance	Pass
High uni rank with medium scores	No chance	Pass
SOP score too low	No chance	Pass
Low LOR score	No chance	Pass

Action	Expected result	Test case Pass / Fail
High TOEFL score	Eligible	Pass
High CGPA score	Eligible	Pass
Low uni rank with medium scores	Eligible	Pass
SOP score High with other scores	Eligible	Pass

9.1 PERFORMANCE METRICS

User satisfaction

For the ease of use for the end users, we have developed this app with a modular approach and clean UI. The end user can easily use the app with the modules. Also this app is responsive which makes it easier to use across all the devices.

Data Verification

Since all the datasets were taken from the IBM sample database and all of them were checked. We have done extra data pre-processing methods such as cleaning the unwanted data, Reducing the noise of the data and Clustering which makes the data verification process easier.

Average response time

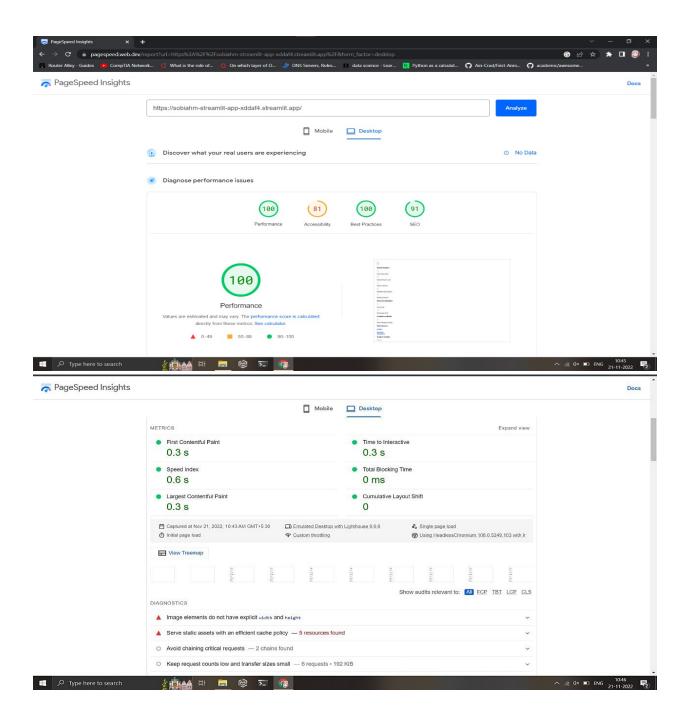
Since the app was made using Flask(Python) and it uses the IBM cloud to get the details as go, The response time is negligible.

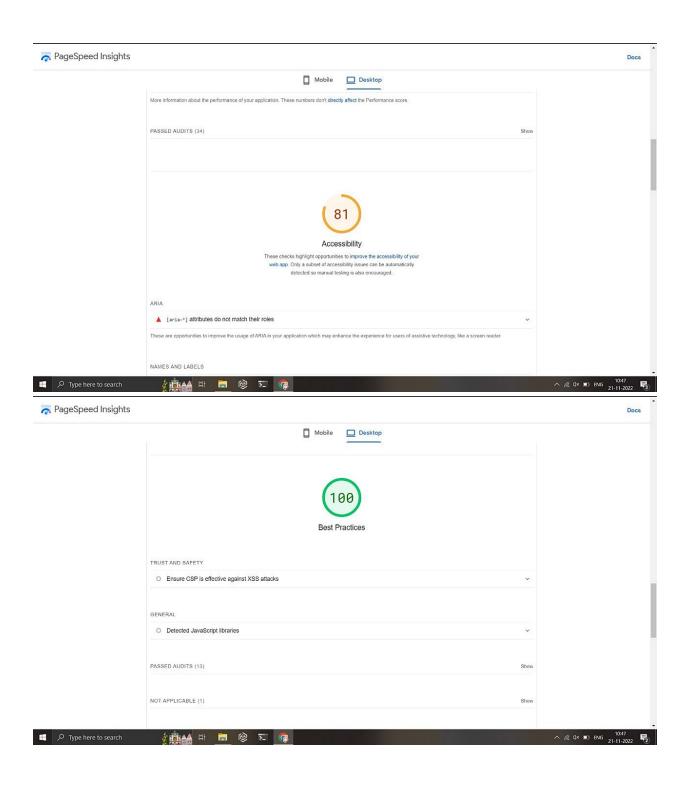
Average Request time

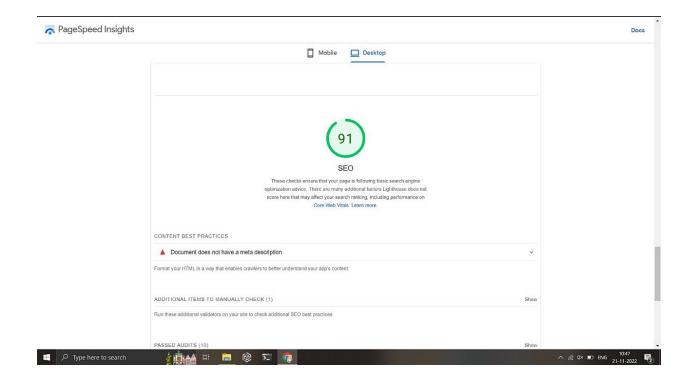
The user inputs the data needed to process in the IBM cloud and then the api needs to fetch data, the processing speed at the ism cloud will determine the request time or waiting time, The request time is low.

Error rate

All the data was taken from IBM datasets and we used comprehensive data preprocessing to avoid and eliminate the errors. This app is almost error free.







10. ADVANTAGES & DISADVANTAGES

Advantages

It helps students make decisions for choosing the right college.

Here the chance of occurrence of error is less when compared with the existing system. It is fast, efficient and reliable.

Avoids data redundancy and inconsistency.

Very user-friendly.

Easy accessibility of data.

Disadvantages

Required active internet connection.

System will provide inaccurate results if data entered incorrectly.

11. CONCLUSION

The subject of this examination was to determine if the below variables contribute to the admission of student to Master's degree program. The results of this examination appear to indicate that it greatly contributes to the response variable 'Chance of Admit'. Higher the GRE, TOEFL score then higher the admit chances. The model predicts 91.5% accuracy and can be used for predicting the admit chances based on the above factors. This model will be helpful for the universities to predict the admission and ease their process of selection and timelines. As part of the hypothesis, the model proved that admission to Master's degree program is dependent on GRE, TOEFL and other scores. 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.

12. FUTURE SCOPE

The future scope of this project is very broad. Few of them are:

- This can be implemented in less time for proper admission process.
- This can be accessed anytime anywhere, since it is a web application provided only an internet connection.
- The user had not need to travel a long distance for the admission and his/her time is also saved as a result of this automated system.

13. APPENDIX

Source Code: The source code of the project can be found in <u>Final-Deliverables</u> GitHub Link: https://github.com/IBM-EPBL/IBM-Project-33797-1660226915

Project Demo Link: Youtube Link