Project Report

on

Success rate of Arrange Marriage Analysis with Graphs/Figures and Reports

Submitted to

LOVELY PROFESSIONAL UNIVERSITY

in partial fulfilment of the requirements for the award of degree of

Master of Computer Applications

Submitted By

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1. Introduction and Objective

"*Success rate of Arrange marriage in India Analysis with Graphs/Figures and Reports*" is a Project created using Python Language with the help of various advanced libraries such as: - NumPy, matplotlib, pandas, etc. This project is a simple and a small project which will help the people to see the analysis of success rate of arrange marriages and it has administrative login page to stay connected and will help them to have a medium to communicate easily and in a faster manner. In this system, the administrative will be able to analyze and generate information related to the success rate of arrange marriage. It will also help in showing the results in the form of the graphical formats or the charts or the pictorial representations, etc.

1.1 Purpose and Scope of this Specification

Success rate of Arrange marriage in India Analysis System will help in keeping the track record of the successful marriages.

The goals and objectives of creating such a system is to: -

- Calculate the population of success of arrange marriages
- Find out the success rate composition
- Find the geographical distributions
- Find out religion
- Caste and culture
- Profession and status

2. Screen Shots with Coding

2.1 Coding

```
while True:
  print('Success Rate of Arrange Marriage Analysis with Graph')
  print('1. Upload & View ')
  print('2. Read Marriage Dataset')
  print('3. Graphical Representation')
  print('4. Analysis through Economics Similarity & Social Gap')
  print('5. Analysis through Education')
  print('6. Analysis through Engagement Time & Love')
  print('7. Analysis through Mental Health')
  print('8. Analysis through Previous Trading')
  print('9. Exit')
  print('Enter your choice:')
  textInput = int(input())

  if (textInput == 1):
   from google.colab import files
   uploaded = files.upload()
   import pandas as pd
   df=pd.read_csv('/content/data.csv')
   print (df)
   print('Thank you. We are redirecting you to Upload File.')
   print('-------------------------------------------------')

  elif (textInput == 2):
     import pandas as pd
     from matplotlib import pyplot as plt
     df=pd.read_csv('marriage_data.csv')
     print (df)
     print('Thank you. We are redirecting you to Read File.')
     print('-------------------------------------------------')

  elif (textInput == 3):
      df=pd.read_csv('marriage_data.csv')
      df.plot.barh(stacked=True);
      plt.show()
      print('Thank you. We are redirecting you to the Graphical Analysis.'
)
      print('-------------------------------------------------------------
')

  elif (textInput == 4):
      df=pd.read_csv('marriage_data.csv')
```

```
      df.plot(kind='scatter', x='Economic Similarity',y='Social Gap')
      plt.show()
      print('Thank you. We are redirecting you to the Analysis through Eco
nomics Similarity & Social Gap')
      print('----------------------------------------------------------------
------------------------------')

  elif (textInput == 5):
     df=pd.read_csv('marriage_data.csv',usecols=['Education'])
     plt.plot(df['Education'])
     plt.show()
     print('Thank you. We are redirecting you to the Analysis through Educ
ation')
     print('----------------------------------------------------------------
-----')

  elif (textInput == 6):
     df=pd.read_csv('marriage_data.csv')
     df.plot(kind='bar', x='Engagement Time',y='Love')
     plt.show()
     print('Thank you. We are redirecting you to the Analysis through Enag
aement Time & Love')
     print('----------------------------------------------------------------
------------------')

  elif (textInput == 7):
    df=pd.read_csv('marriage_data.csv')
    df.plot(kind='scatter', x='Mental Health',y='Previous Trading')
    plt.show()
    print('Thank you. We are redirecting you to the Mental Health')
    print('----------------------------------------------------------')

  elif (textInput == 8):
    df=pd.read_csv('marriage_data.csv')
    df.plot.box();
    plt.show()
    print('Thank you. We are redirecting you to the Main Menu')
    print('----------------------------------------------------------')

  elif (textInput == 9):
    print('Thank you for visiting.')
    break

  else:
    print('Invalid Choice Please Choose Valid Number')
```

2.2 Output Screen Shots

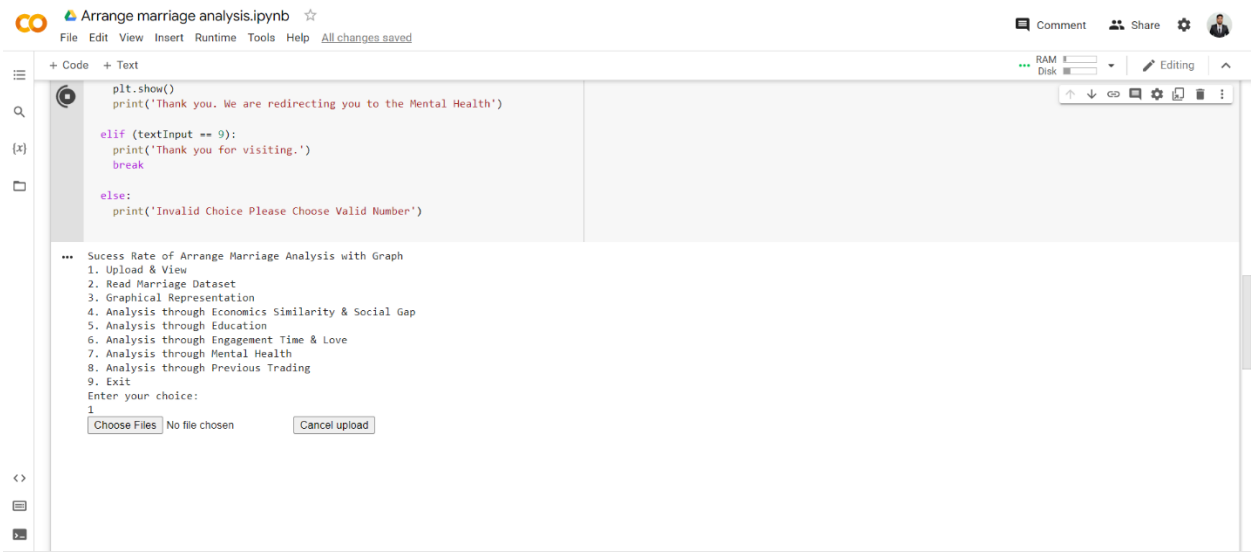

Fig: 01

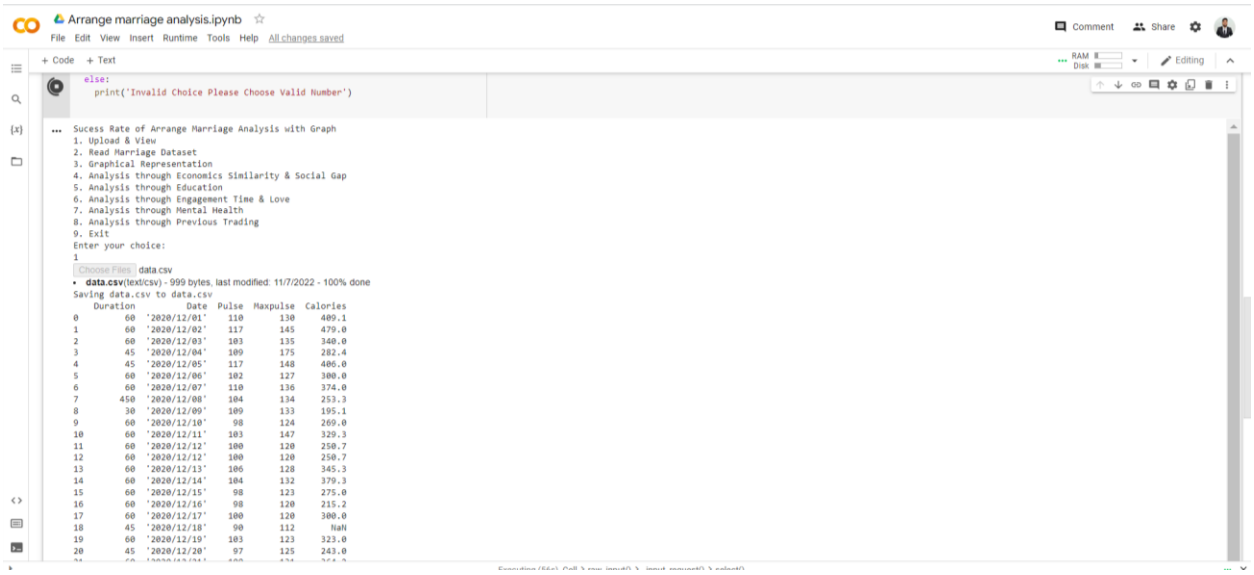

Fig: 02

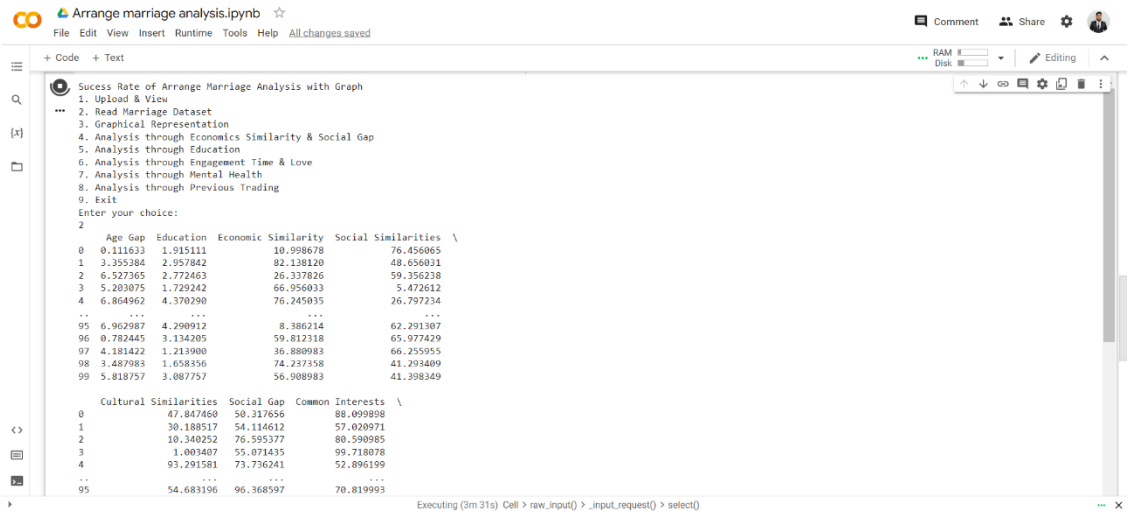

Fig: 03

Fig: 04

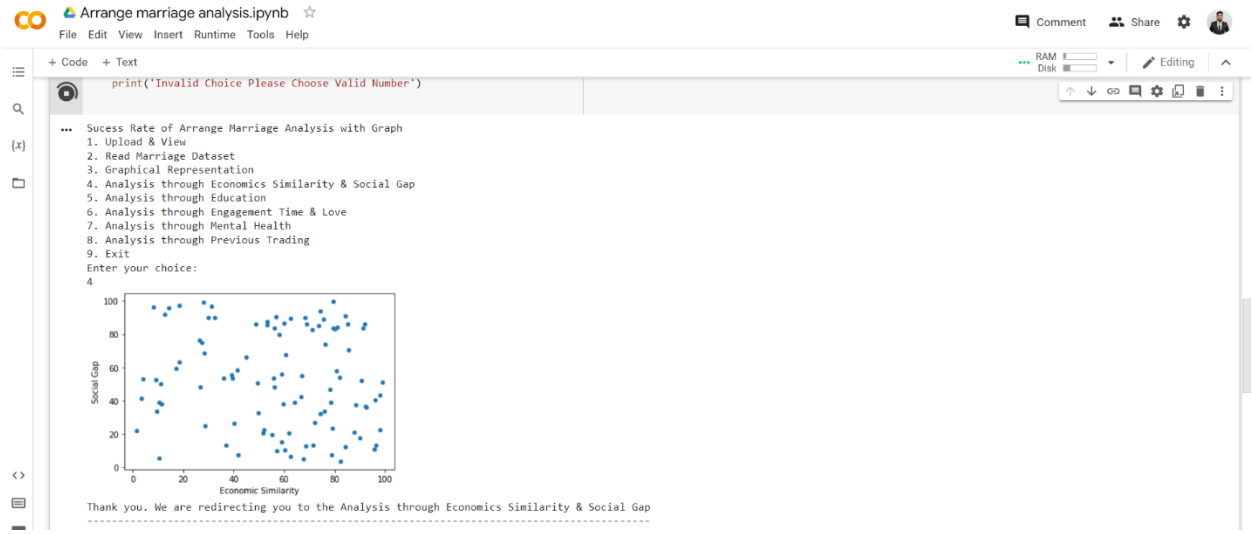

Fig: 05

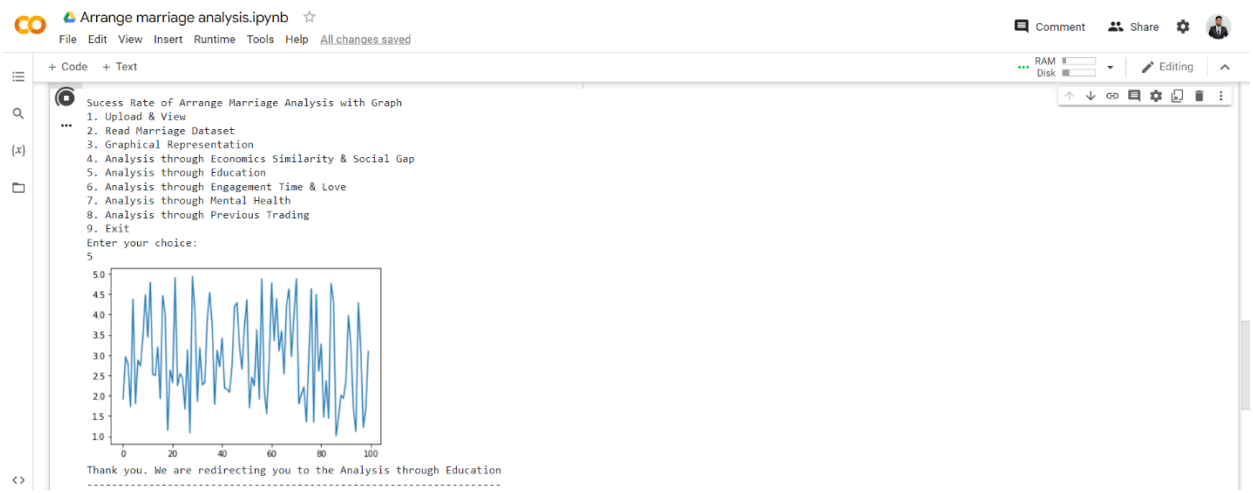

Fig: 06

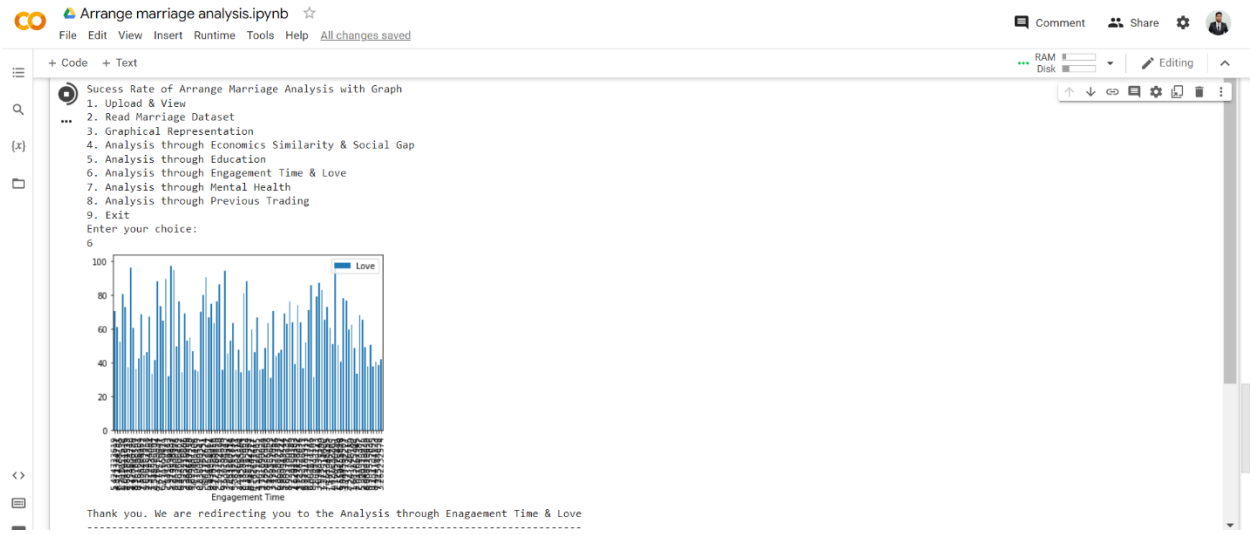

Fig: 07

Fig: 08

Fig: 09

```
------------------------------------------------------------
Sucess Rate of Arrange Marriage Analysis with Graph
1. Upload & View
2. Read Marriage Dataset
3. Graphical Representation
4. Analysis through Economics Similarity & Social Gap
5. Analysis through Education
6. Analysis through Engagement Time & Love
7. Analysis through Mental Health
8. Analysis through Previous Trading
9. Exit
Enter your choice:
9
Thank you for visiting.
```

Fig: 10

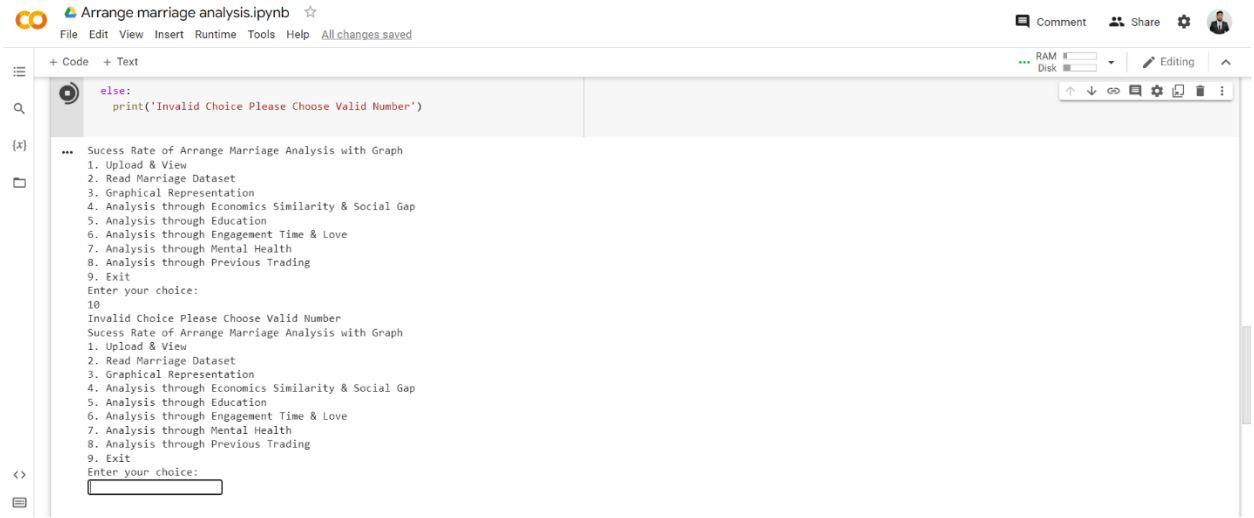

Fig: 11

3. Validation Check

Here I have used one menu (option 1 Upload files) option which is importing csv files so user must import only csv files if any user import/choose any other format file except csv it will throw an error and the file will not get uploaded/imported.

4. Testing

Test Case Id	Test Case Name	Test Case Description	Expected Output	Actual Output
01	File format	File format must be in csv	User should be able to upload their file.	User can upload their file.
02	Valid input	User must enter (1-9) as choice	User should be able to see the output.	User can see the output.
03	For reading dataset	Dataset must be in the system	User should be able to view their dataset.	User can view their dataset.

5. Future scope of the project

This project has been developed keeping the future of success rate of arrange marriage in India or any type of dataset in mind. User can upload their datasets (The datasets must be in csv format) and this software will convert their dataset and generate different types of graphs. This project will help the user who want to analyze their data with the help of different types of graphs and figures. Through this project user can see the analysis of their datasets more clearly and in a visualized manner. This project also helps the user to take any decision easily with the help the analysis and after that they can work accordingly.