













child at the Secondary Level

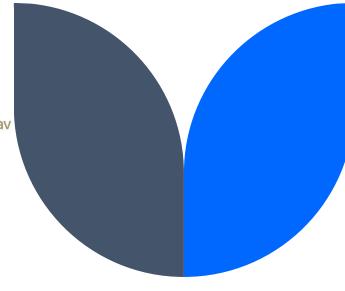
Team Name: Code Crafters

Team Leader Name: Priyam Pal

Team Mentor: Mr. Uddalok Sen

Institute Name: MCKV Institute of Engineering





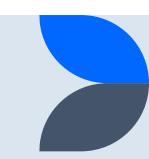
The Problem description and its relevance to today's society

In today's world, where growing populations and limited job opportunities leave high school graduates struggling with career choices, problems like parental pressures often force students to pursue financially stable careers like engineering or medicine without considering their zone of interest, students lacking exposure to a wide range of career options, limiting their understanding of what's available etc occurs. The job market is evolving rapidly, and graduates may struggle to predict which fields will offer stable employment. Moreover, the pressure to excel academically and choose a career can lead to mental health issues like anxiety and depression.

Describing the Solution Proposed

Our platform will use AI-based career guidance, easing this confusion. It will monitor students' mental well-being and provide training sessions for aptitude, technical etc, ensuring every student is guided towards their best-fit career. Moreover, our platform helps students choose the right textbooks by offering reviews and recommendations. This platform is committed to making career decisions easier, fostering mental health, and simplifying the path to academic success, all in one place.

Explaining the Uniqueness and Distinctive Features of our Service:



1

Wide range of career opportunities for students based on their stream and zone of interest.

2

Students will be provided with mental health counselling sessions.

3

Training related to aptitude, technical and other courses and ample exams will be conducted.

4

Online Tutorial will be offered according to User's Subject Matter 5

Review and recommendation of books will be offered.

Pipeline:



DATA ACQUISITION

Gathering diverse data sources for comprehensive insights and analysis.



MODELLING AND ERROR ANALYSIS

Identifying and rectifying discrepancies for accurate, reliable data interpretations.



DEPLOYMENT AND PRODUCTIONIZATION

Implementing and launching solutions for practical use and impact on Google Cloud Platform or AWS Sagemaker

Identifying and selecting crucial data elements for effective analysis and modelling.



Complex modelling techniques for precise predictions and meaningful insights.





Proposed UI of WiseWay.io:

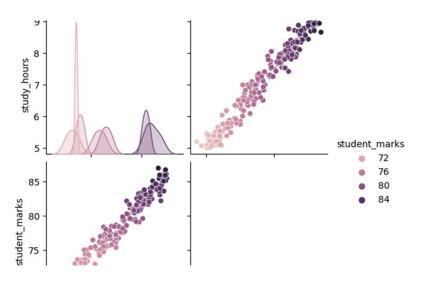


Implementation of Features:

Predicting Students Marks on basis of their Study Hours:

```
import numpy as np
                                                        X train, X test, Y train, Y test = train test split(X,Y, test size = 0.2, random state = 51)
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model_selection import train_test_split
                                                         print("Shape of X train : ", X train.shape)
from sklearn.linear model import LinearRegression
                                                         print("Shape of X test : ", X test.shape)
print("All Modules Imported")
                                                        print("Shape of Y train : ", Y train.shape)
                                                        print("Shape of Y test : ", X test.shape)
dataset = pd.read csv("student info.csv", header=0)
                                                                                                 lr.predict([[8]])[0][0].round()
                                                                                                                                                    lr = LinearRegression()
 plt.figure(figsize = (16,9))
 plt.scatter(dataset.study hours, dataset.student marks, color = 'g'
                                                                                                 Y pred = lr.predict(X test)
                                                                                                                                                    lr.fit(X train,Y train)
 plt.xlabel("Hours of Study")
                                                                                                 Y pred
 plt.ylabel("Student marks")
 plt.grid(True) # Add grid to the plot
 plt.show()
                                                                                         lr.score(X_test, Y_test)
             import pickle
             # importing the library
                                                                                         plt.figure(figsize = (16,9))
             filename = "Marks Prediction trained model.pkl"
                                                                                         plt.scatter(X train, Y train)
             pickle.dump(lr, open(filename, 'wb'))
                                                                                         plt.plot(X train, lr.predict(X train), color = 'r')
             # saving file
                                                                                         plt.show()
                                                                YUKTI - NATIONAL INNOVATION REPOSITORY
```

Insights:

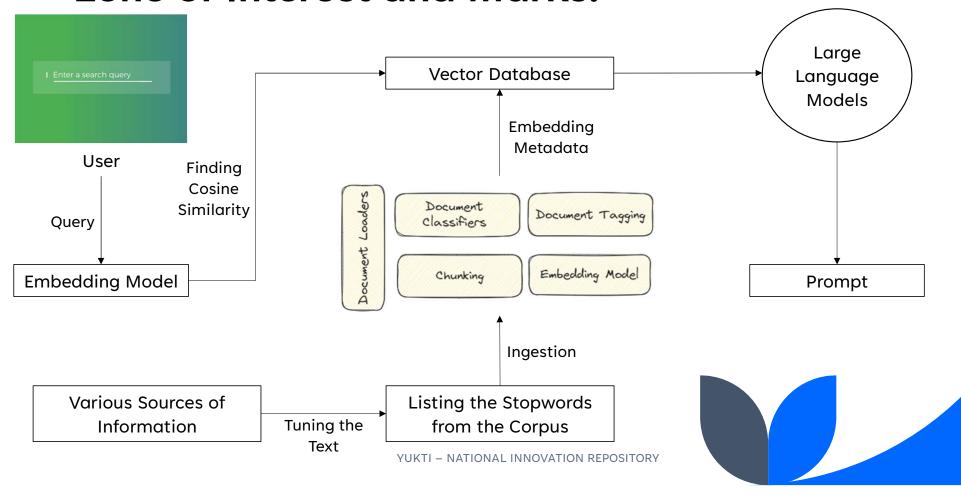


50 55 60 65 70 75 80 85 90

Visualization of the Dataset

Prediction

Suggesting Career Choices on basis of their Zone of Interest and Marks:



Proposed Output:

Type Your Interest Here:

Know the Best path for your Bright Future

COMPUTER SCIENCE

Stream: Science

Subject Combination: Physics, Chemistry, Mathematics,

Computer Applications

Higher Studies: B.Tech in Artificial Intelligence and

Machine Learning

Stream: Science

Subject Combination: Physics, Chemistry, Mathematics,

Computer Applications

Higher Studies: B.Tech in Infomation Technology

Stream: Commerce

Subject Combination: Accountancy, Commerce,

Mathematics, Computer Applications, Business Studies

Higher Studies: MBA in Business Analytics

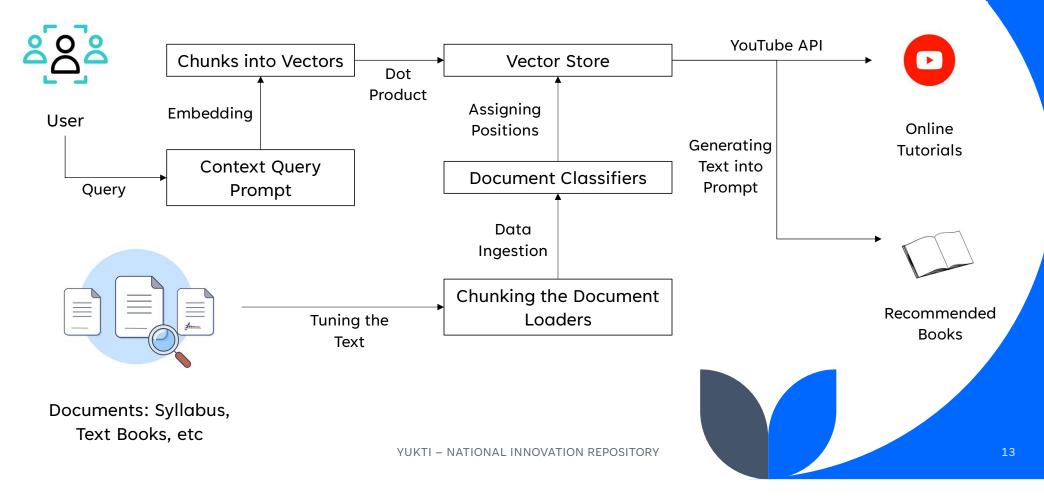
Stream: Science

Subject Combination: Physics, Chemistry, Mathematics,

Computer Applications

Higher Studies: B.E. in Computer Science Engineering

Offering Students with Online Tutorials and Book Recommendations:



Meet our team:



Priyam Pal

Pursuing B.Tech in Artificial Intelligence and Machine Learning



Ahelee Mukherjee

Pursuing B.Tech in Artificial Intelligence and Machine Learning



Semanti Ghosh

Pursuing B.Tech in Artificial Intelligence and Machine Learning



Saptarshi Parui

Pursuing B.Tech in Artificial Intelligence and Machine Learning



Mr. Uddalok Sen

Assistant Professor(IT), MCKV Institute of Engineering Expertise in Data Science, AI&ML, Blockchain

Domain Experience: 16+ Years

Thank you

