Project proposal
Students at schools in Saudi Arabia

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SADAIA BOOTCAMP T5

Students at schools

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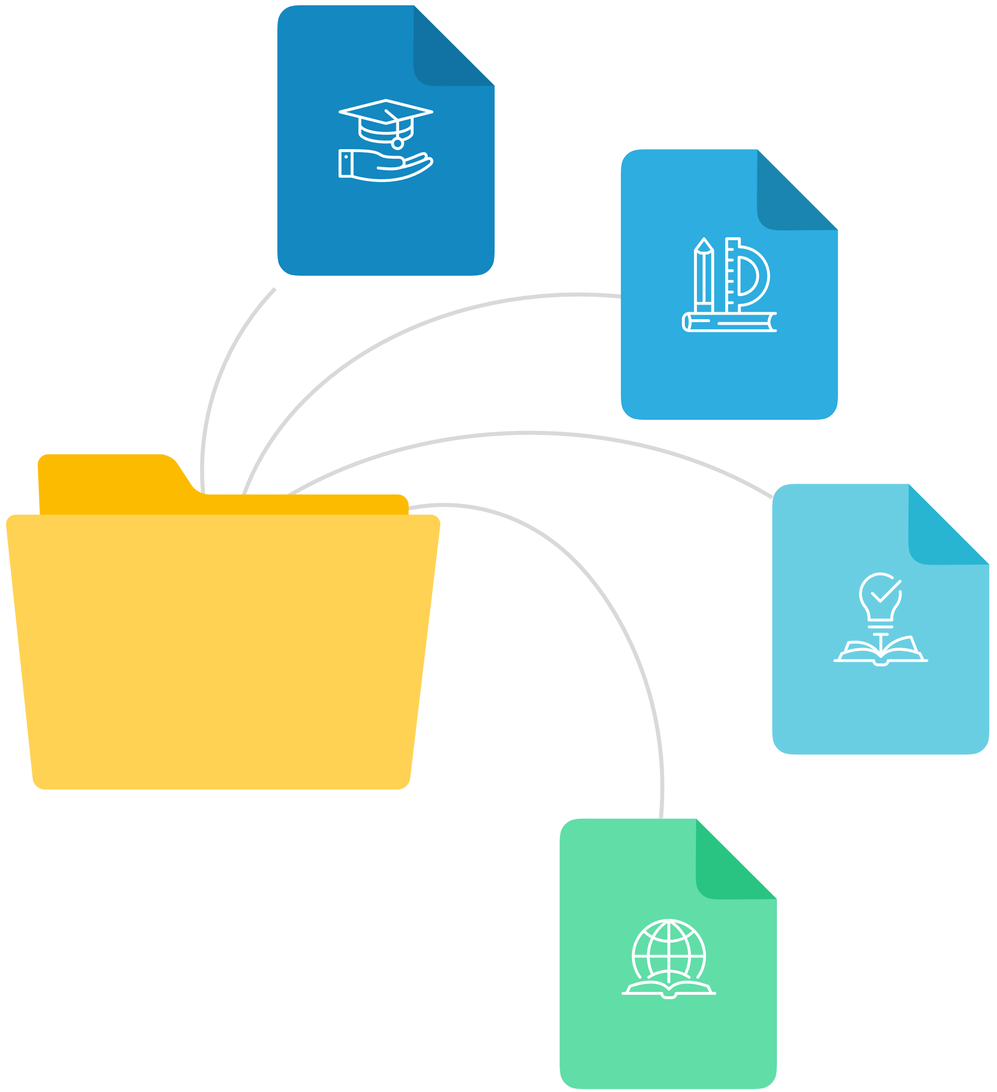


INTRODUCTION

Education constitutes a significant and critical factor in human resources development, increasing people knowledge and competencies, and ensuring nation economic prosperity. The main objective of education institute and one of its biggest challenges is to provide quality education to its students.

This project is aimed for analyzing students' data, elementary through high school, and to predict the schools and students' needs according to the data provided.

Question Problem & objectives

1- Prediction Students Graduation.

2-Number of foreign students comparing with Saudis.

3-The growth rate of the female.

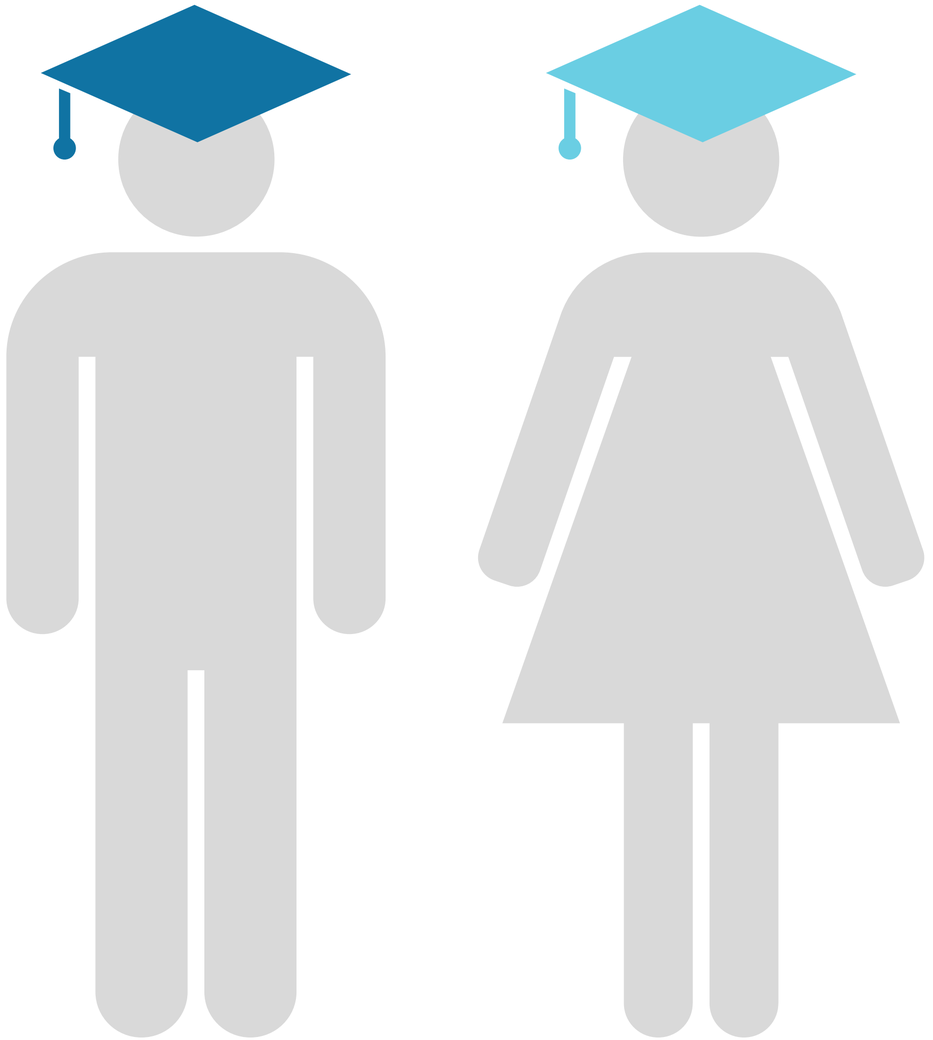
4-The growth rate of the male.

5-Number of student in the cities of Saudi Arabia.

Data Descriptions

I'm planning to use excel file contains:
11532 rows and 15 column.

The column	Describtion
Code	Unique Number
First Name	First Name
Father Name	Father Name
Gender	Regard (male , Female)
Nationality	Jordan, Algerian, gulf, Saudi, Syrian, Lebanes , Egyption.
Birth of date	Birth of date
level	High school,Preparatory, Primary
City	which city in Saudi
Id	Unique number
Joining day	First day at school
Joining month	First month at school
Joining year	First year at school
Current Class	Which class



Algorithms

- I will use streamlit to deploy and visualize the final result .

- cleaning the text feature.
- Labeling the text.
- Adding extra features.

- Analyses the students .

- Macin learning model to predict Analysis of students according to the graduation .
- Macin learning model to predict Gender analysis according to school level.
- Macin learning model to predict Average capacity by cities.

Material & tools

- Panda for data manipulation.
- Scikit-learn for modeling.
- Re for clean data.
- ntk for natural language processing.
- Streamlit for plotting.
- Streamlit for interactive visualizations.

The end