PREDICTING THE EXPECTED GRADUATE & INCREASING THE NUMBER OF STUDENTS IN SAUDI ARABIA

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SADAIA BOOTCAMP T5



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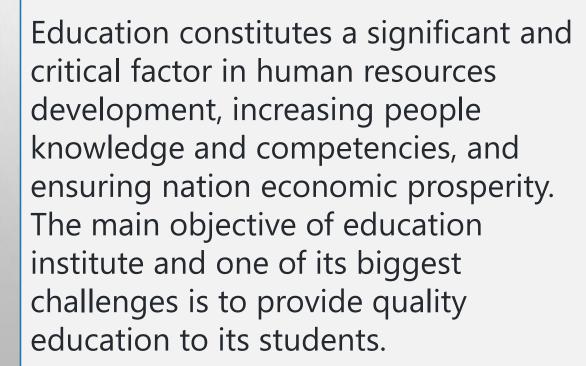
Design Introduction

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Introduction









Goal

This project is aimed for answer the below Questions:

- What the expected students Graduate?
- How the Increasing students
 Number by gender (Female, Male)?





From the Dataset I have
15 Features
11522 Observations

DATA SOURCES

	Code	First Name	Last Name	Father Name	Mother Name	Gender	Nationality	Birth Date	Level	City	ID	Joining Day	Joining Month	Joining Year	Current Class
0	66795	أمونة	ابو عون	عبد الرزاق	فاطمة	Female	سعودي	2009- 08-03	Primary	ميسان	Najah 10	5	6	2019	خامس ابتدائي
1	66472	ابراهيم	جبري	محمد	مريم	Male	أردني	2007- 06-14	Preparatory	العيص	Najah 22	14	12	2019	أول إعدادي
2	66591	عطا الله	عبد الله	صبحي	فاطمة	Male	سعودي	1999- 02-28	High school	الرياض	Najah 41	20	7	2019	تفرج
3	66473	رياض	شيخ	احمد	فطوم	Male	لبناني	2004- 04-12	High school	ثار	Najah 30	19	7	2018	أول ثانوي
4	66365	تركية	كفا	صبحي	عيدة	Female	خليجي	2009- 07-05	Primary	عرعر	Najah 08	21	2	2018	خامس ابتدائي
11517	77843	فتحية	عائش	ارشيد ابازيد	سعيد	Female	سعودي	2006- 09-27	Preparatory	املج	Najah 20	25	1	2019	تاني إعدادي
11518	77844	لطيفة	زبيدة	الصرما	معروف	Female	مصري	2006- 07-28	Preparatory	السليل	Najah 16	26	3	2019	تاني إعدادي
11519	77845	ناهدة	رمزية	عبدى	خيرو	Female	سور ي	2001- 05-13	High school	بارق	Najah 38	11	1	2018	تفرج
11520	77846	حسبة	عسكرية	كوكة	عطية	Female	خليجي	2006- 08-11	Preparatory	بقيق	Najah 18	18	11	2019	تاني إعدادي
11521	77847	فاطمة	رفعة	عبدالقادر	عمرو	Female	سعودي	2003- 05-24	High school	ابو عریش	Najah 35	22	7	2018	ثاني ثانو <i>ي</i>

Summary

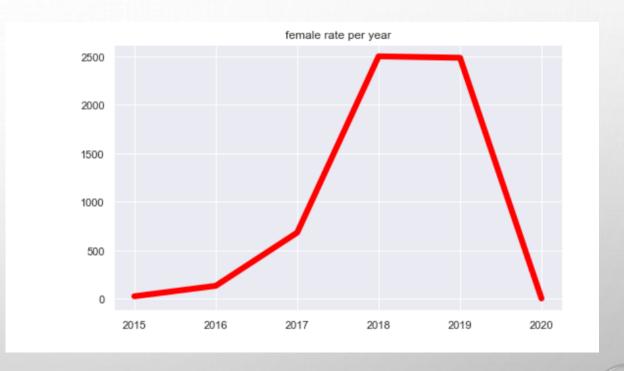


- We predicting that 569 Student will be graduate in 2020 to be prepare a sets for University.
- The numbers of female start increasing to reach the highest number of females in 2018 than 2017 by 1818.
- The numbers of Male start increasing to reach the highest number of male in 2018 than
 2017 by 805



The numbers of female start increasing to reach the highest number of females in 2018 & 2019 then in 2020 the line fall down to 5835 female the number of female is increasing by years

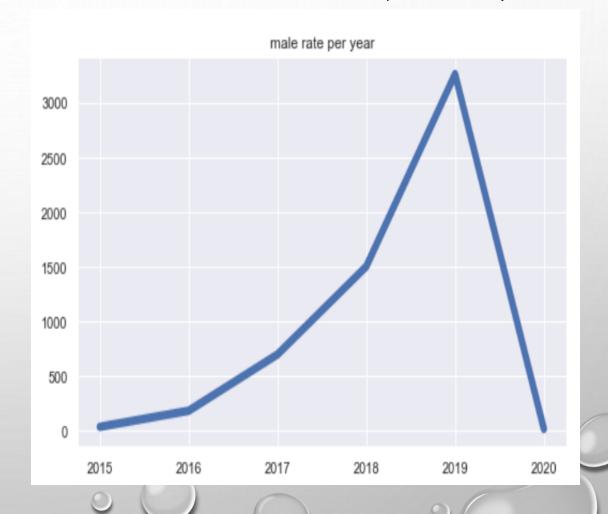
because the condition of COVID 19



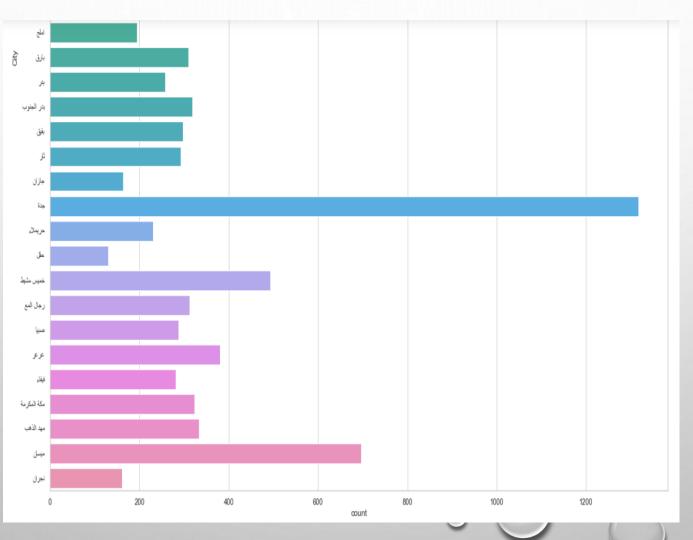
PREDICTING THE INCREASING STUDENT'S NUMBER (MALE)

The numbers of Male start increasing to reach the highest number of Male in 2019 then in 2020 the line fall down to 5689 male the number of male is increasing by years

because the condition of COVID 19



STUDENTS NUMBER PER CITY



Algorithms

In the Project we have been used many Algorithms models for training, Validated and testing the score model performance.

- Linear Regression validation Score 100%.
- Ride Regression validation Score 100%.
- Degree polynomial Regression validation Score 100%.
- Linear Regression Test Score 100%.
- Decision Tree Score 100%.
- Random Forest Score 100%.



TOOLS

- Jupiter Notebook.
- Panda & Numpy library.
- Matplotlib.pyplotLinear & seaborn.
- Sklearn.linear_model
- Sklearn.model_selection
- Sklearn.preprocessing.
- Sklearn.tree.
- sklearn.ensemble..