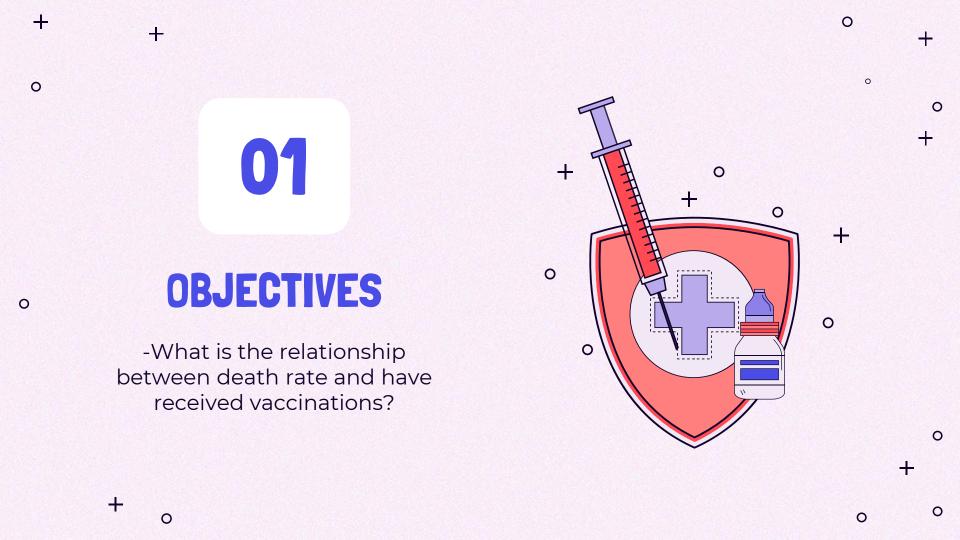
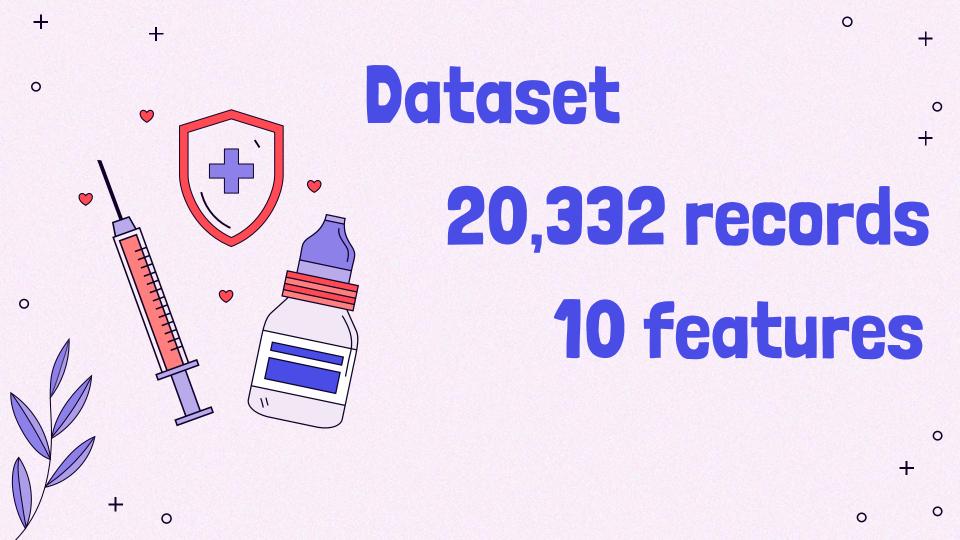




0 Introduction The COVID-19 pandemic has brought the whole world to a halt, nearly 4.5 million people have perished, and the only way out of the crisis is for everyone to be vaccinated. . 0

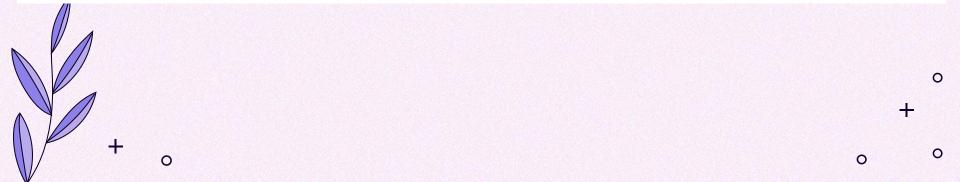


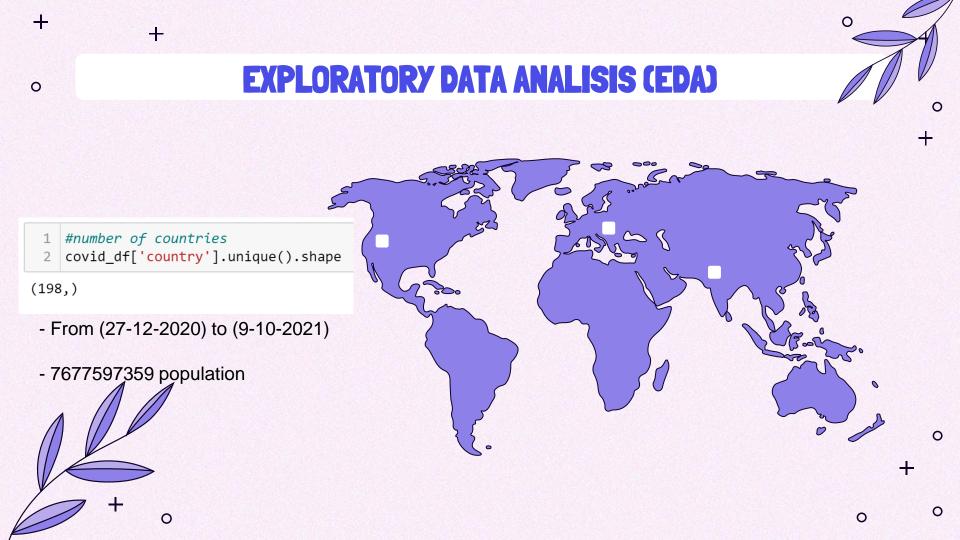


o Dataset

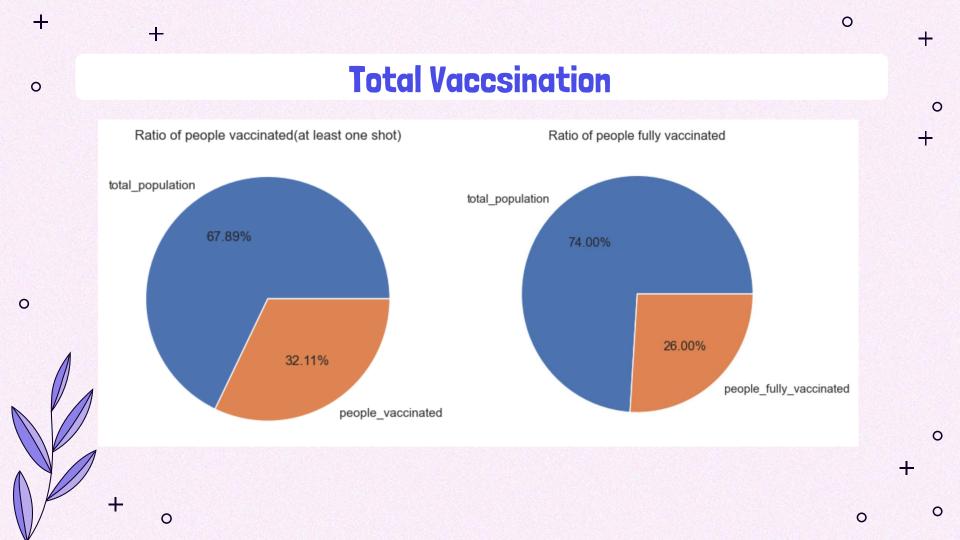
1 # Check result
2 covid_df.head()

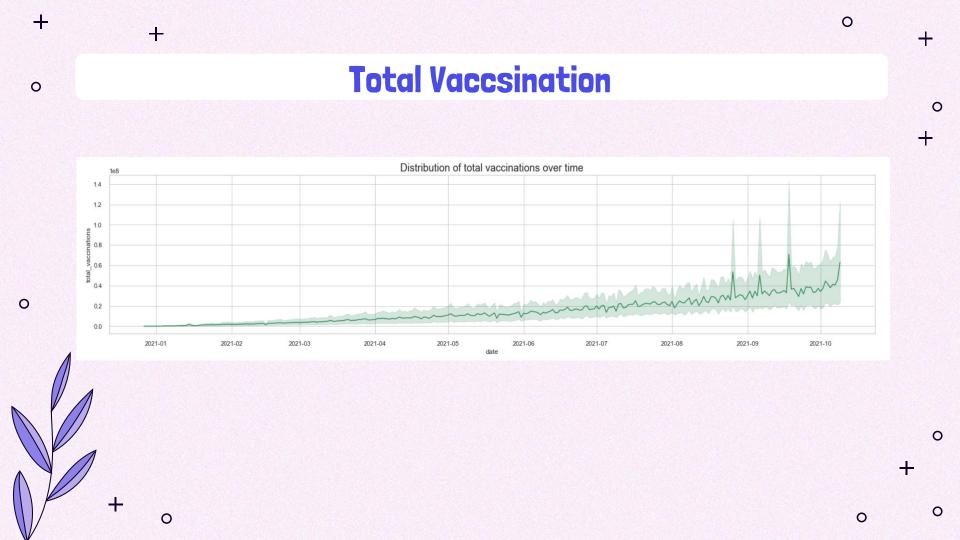
	Unnamed: 0)	country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_vaccinated	New_deaths	population	ratio
0	0)	Afghanistan	AFG	5/11/2021	504502	448878	55624	12	40094444	1.119552
1	1		Afghanistan	AFG	5/20/2021	547901	470341	77560	10	40094444	1.173083
2	2	2	Afghanistan	AFG	5/24/2021	573277	476367	96910	10	40094444	1.188112
3	3	3	Afghanistan	AFG	5/26/2021	590454	479372	111082	19	40094444	1.195607
4	4	ļ	Afghanistan	AFG	5/27/2021	593313	479574	113739	14	40094444	1.196111



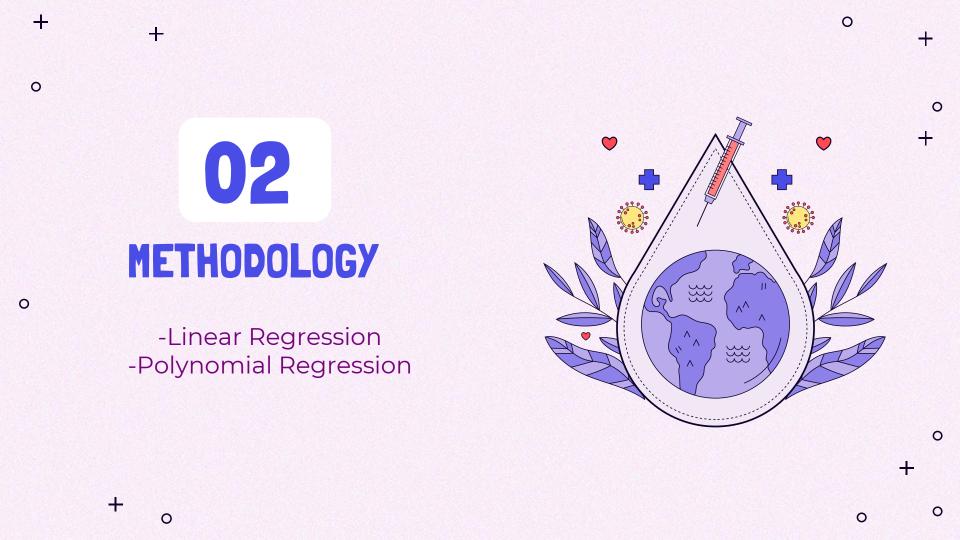


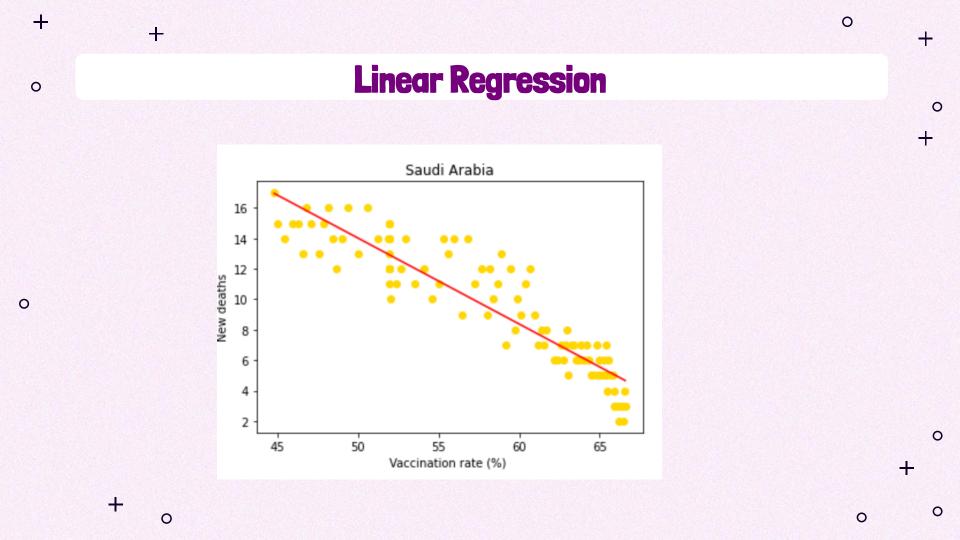
```
0
   1 # get the number of missing data points per column
     missing_values_count = covid_df.isnull().sum()
     # Look at the # of missing points in the first ten columns
     missing values count[0:10]
  country
  iso_code
  date
  total vaccinations
  people_vaccinated
  people fully vaccinated
  New deaths
  population
  ratio
                                        #delete unnamed column
  dtype: int64
                                         covid_df.drop('Unnamed: 0', axis=1, inplace=True)
                                         covid df.columns
                                         for col in covid_df.columns:
                                              if col.startswith('Unnamed'):
                                                  del df[col]
                                         covid df.head()
```

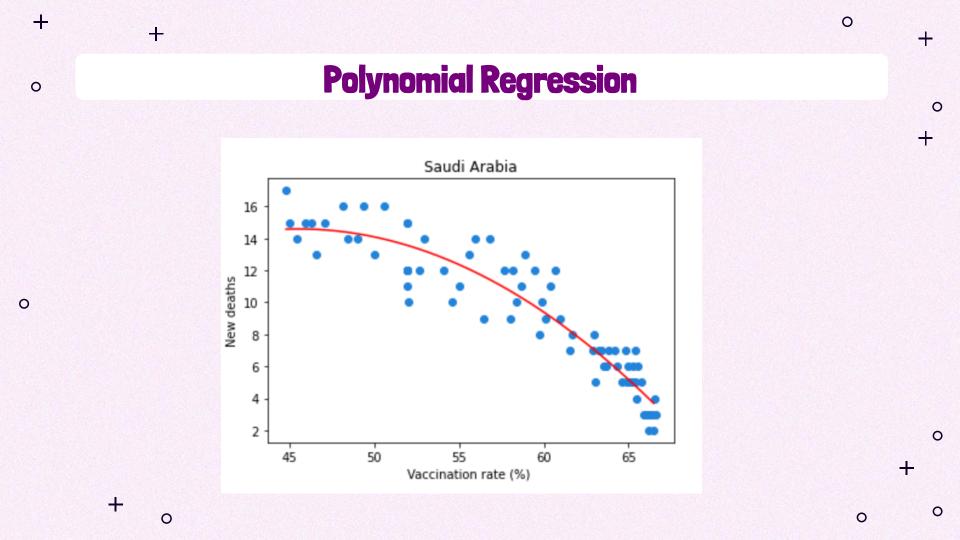


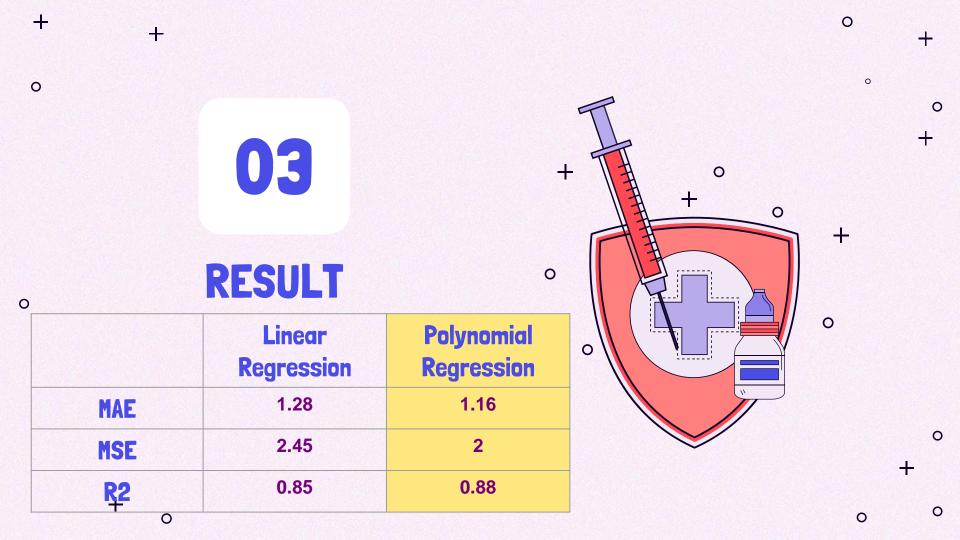


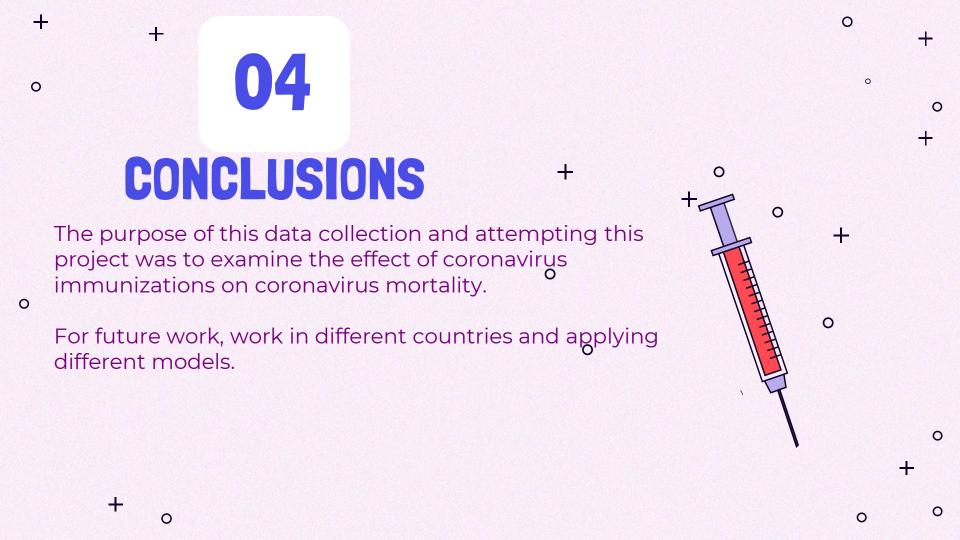
















AWESOME WORDS



