

# AIM

**Exploring population changes across different countries around the world.**

**Projection:** How are populations around the world projected to increase?

**Male vs. female:** Has there been a significant deviation between proportions of males and females in a particular country in the past and how is it forecast to change into the future.

DATA  
SOURCE  
1

DATA  
SOURCE  
2



# POPULATION DATA

**Population by Age and Sex from 1950 to 2100**

[https://www.kaggle.com/ahmethoso/wpp-  
population-by-age-and-sex](https://www.kaggle.com/ahmethoso/wpp-population-by-age-and-sex)

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## GEOJSON DATA

[https://s3.amazonaws.com/  
rawstore.datahub.io/23f420f929e0e09c39d9  
16b8aaa166fb.geojson](https://s3.amazonaws.com/rawstore.datahub.io/23f420f929e0e09c39d916b8aaa166fb.geojson)



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# DATA PROCESSING

## Populations Data

- CSV file of the population information
- Geojson file/API for country outlines
- Libraries used: geopandas, pandas, sqlalchemy, Flask
- Kept the countries present in both files
- Put the data into PostgreSQL and created an API



# WEB PAGE

## Libraries Used

- D3 - For filtering and graphical elements
- Leaflet - For creating the interactive world map
- ScrollReveal - Animations
- Plotly - Bar Graph

Flask was used to build the web application





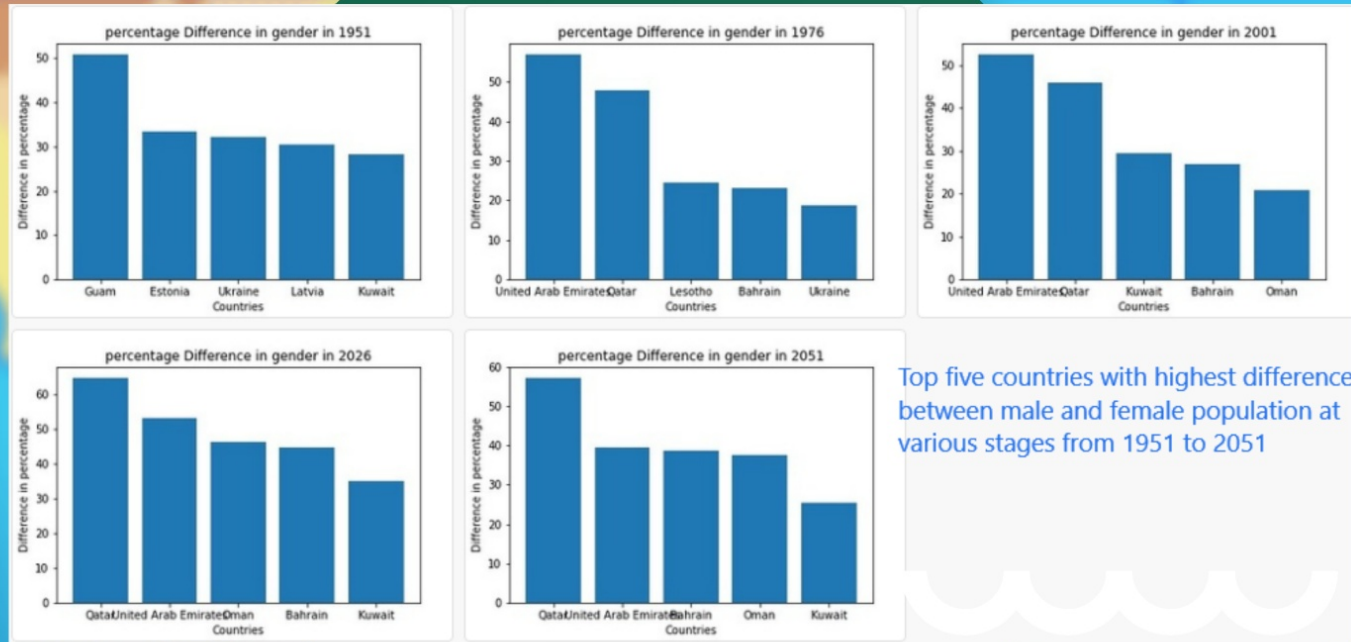
# CONCLUSIONS

Ukraine, Latvia and Estonia started off as the countries with greatest difference between gender. However, middle east took over this place and may stay on top in future

China started as the Most populated country in 1951 but, however, in future, India may become the most populated country with 1.44 Bn people

Male vs  
Female  
population

Overall  
Population  
projection



Top five countries with highest difference between male and female population at various stages from 1951 to 2051



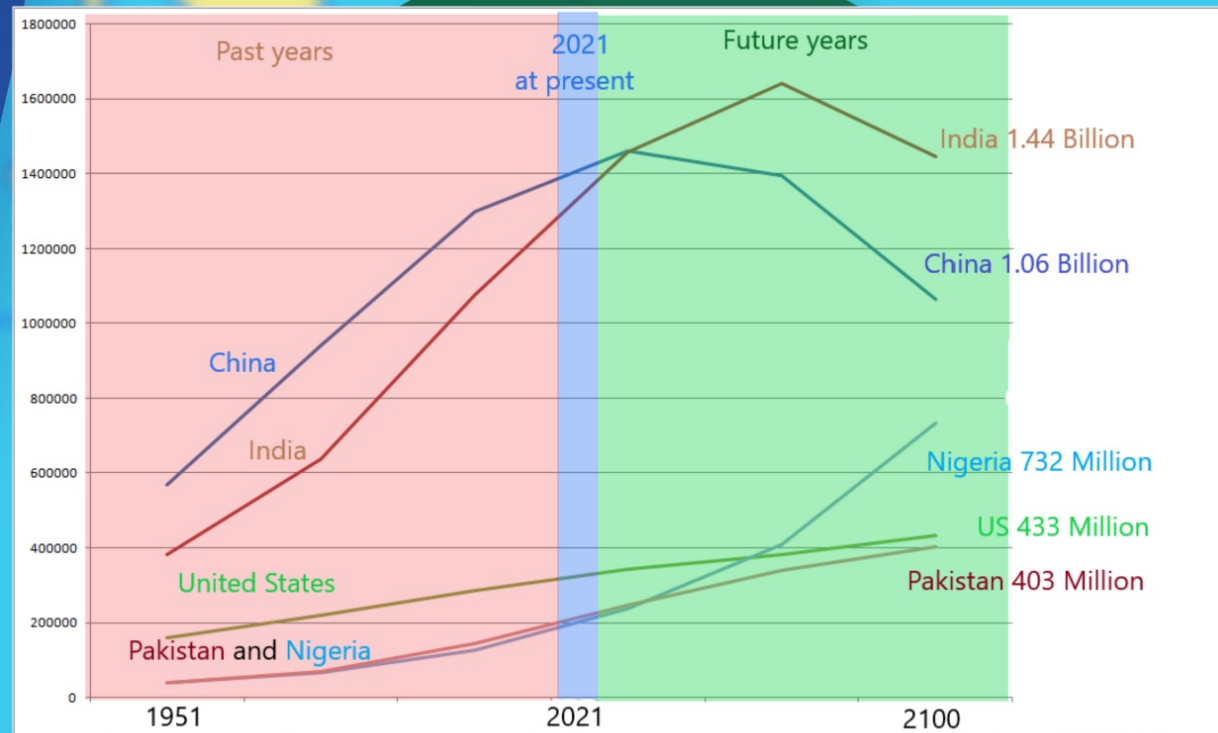
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