

Teenage Pregnancy Trends Dashboard Documentation

Overview

The **Teenage Pregnancy Trends Dashboard** is a web-based tool created using Streamlit. It visualises trends in teenage pregnancy across Rwanda based on data from the **Rwanda Demographic and Health Surveys**, conducted in **2010-2011**, **2014-2015**, and **2019-2020**. The data was provided by the **National Institute of Statistics of Rwanda (NISR)**. This dashboard shows changes in teenage pregnancy rates and allows users to explore the data in detail.

Features

1. **Trend Visualization**
 - View changes in teenage pregnancy rates over the survey periods: 2010-2011, 2014-2015, and 2019-2020.
2. **Comparative Analysis**
 - Compare teenage pregnancy rates across years to identify patterns and significant changes.
3. **Interactive Filtering**
 - Focus on specific demographics, such as age or location, using filters for detailed insights.
4. **Map Visualization**
 - Explore district-wise and regional teenage pregnancy rates using an interactive map.
5. **Upcoming: Prediction Model**
 - A planned feature that will use machine learning to predict future teenage pregnancy rates based on past trends and other indicators.

Data Sources

The dashboard uses data from the **Rwanda Demographic and Health Surveys**, conducted in:

- **2010-2011**
- **2014-2015**
- **2019-2020**

This data was provided by the **National Institute of Statistics of Rwanda (NISR)**.

Future Development

The prediction model is an exciting upcoming feature that will enable forecasting future trends, helping policymakers make informed decisions.

This tool aims to support researchers, policymakers, and the public in understanding and addressing teenage pregnancy in Rwanda.