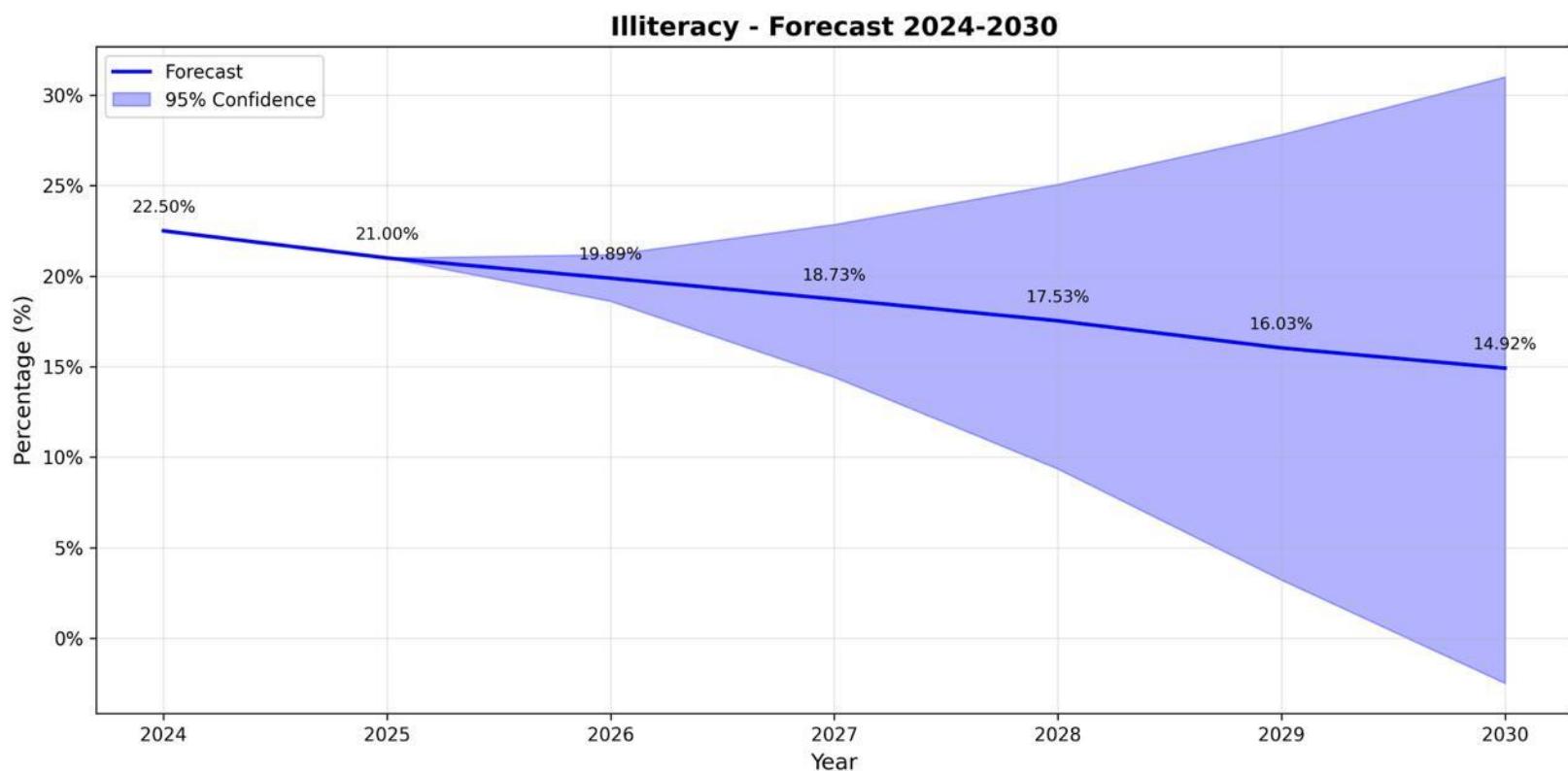


In this project, we used Time Series Analysis to predict the development of six major social issues in Egypt up to the year 2030.

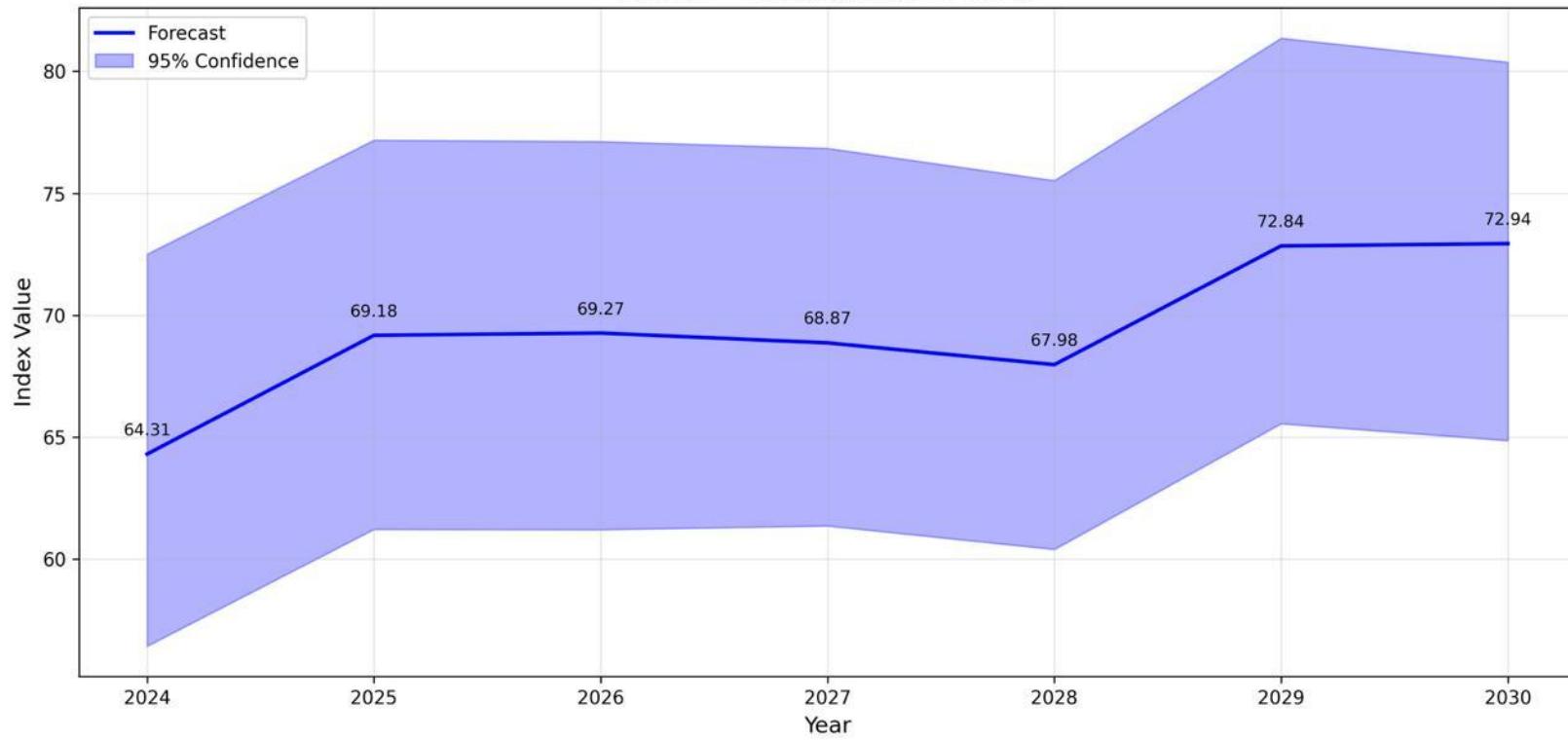
The first step was Data Collection & Cleaning, where we gathered annual data from reliable sources and organized it in a standardized format. Then, we used the Facebook Prophet model because it is highly suitable for yearly data and handles long-term trends efficiently. We prepared the data in a simple format containing Year and Target Value and trained the model on data from 2018 to 2023. The model was able to identify the trend for each issue and indicate whether it tends to increase or decrease. After training, we performed forecasting for the expected values from 2024 to 2030 for each issue independently. We then combined all forecasts into Excel and CSV files ready to be used in a Power BI dashboard. We analyzed annual changes, calculated increase and decrease percentages, and classified the trends as: Slight Increase, Significant Increase, Critical Decrease, etc. Finally, we prepared visualizations and clear charts showing the expected scenario for each issue over the coming years.

The results are entirely based on real data, and the model provides realistic insights to support decision-making and future policy planning.



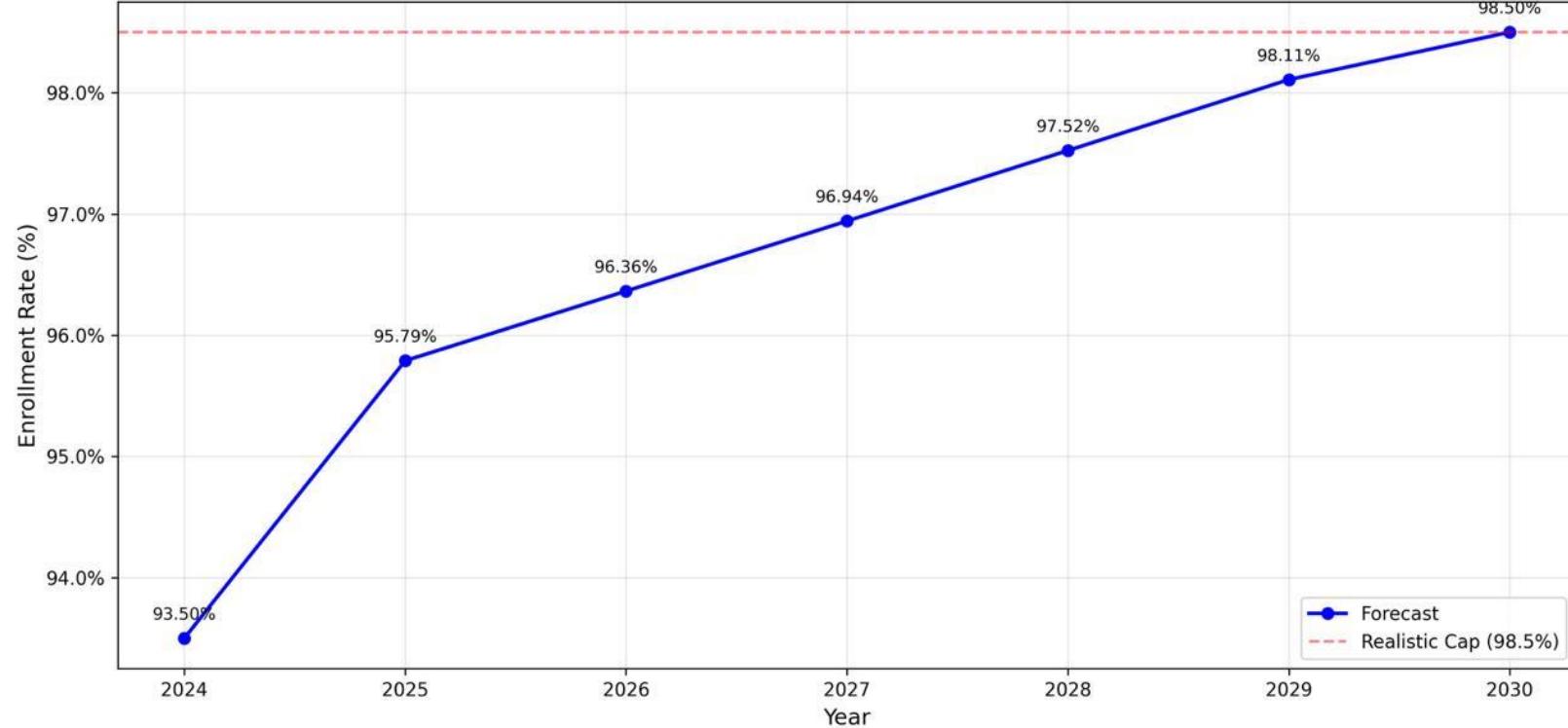
The illiteracy issue showed a clear declining trend over the past years. Government programs and community education helped gradually reduce the rate, and the model predicted the decline to continue until 2030. This is one of the most positive indicators in the project.

## Health - Forecast 2024-2030



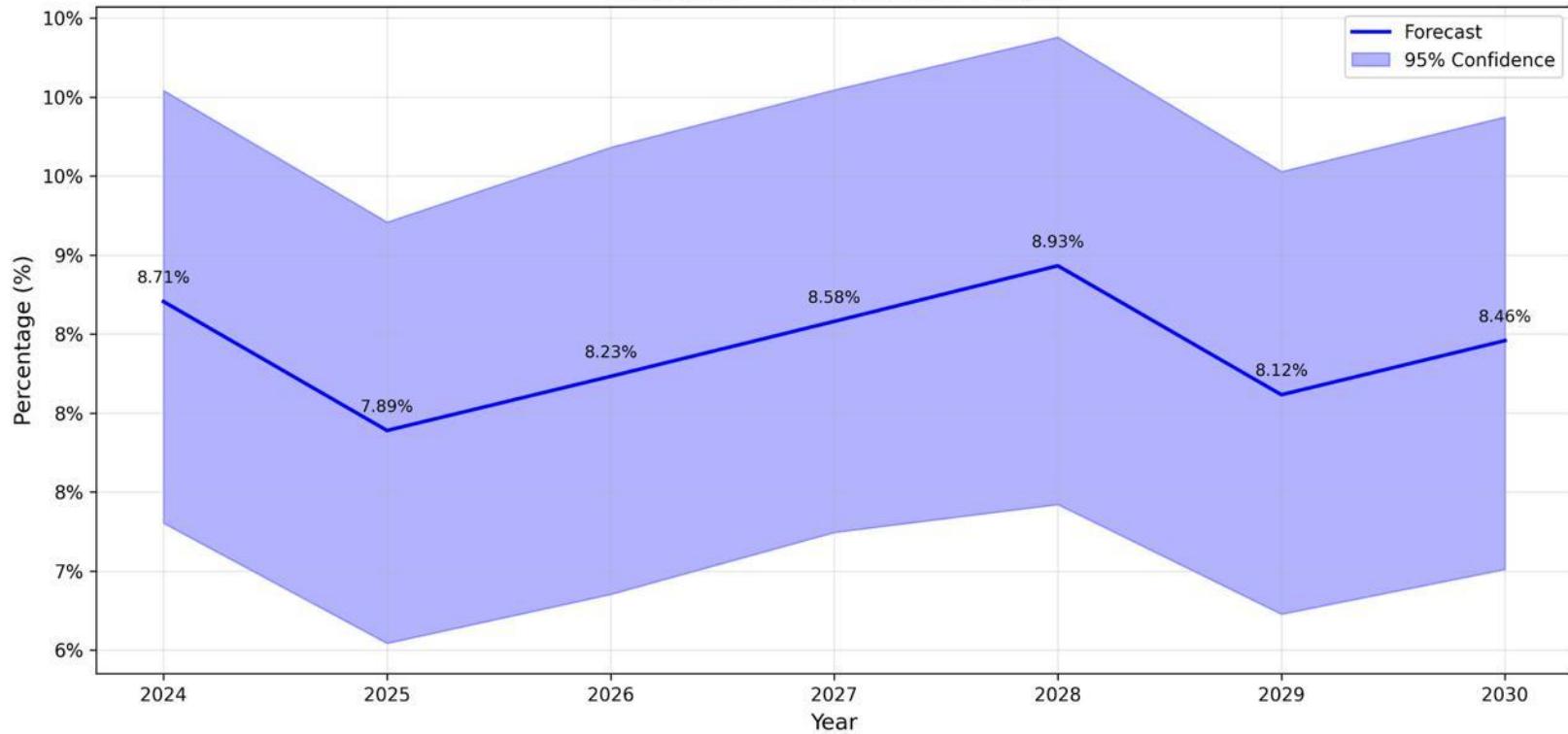
Health indicators showed an improving trend in recent years due to increased treatment programs and awareness campaigns. The model predicted steady improvement until 2030, reflecting the role of the Ministry of Health in enhancing services.

## Education Enrollment - Natural Growth Forecast 2024-2030



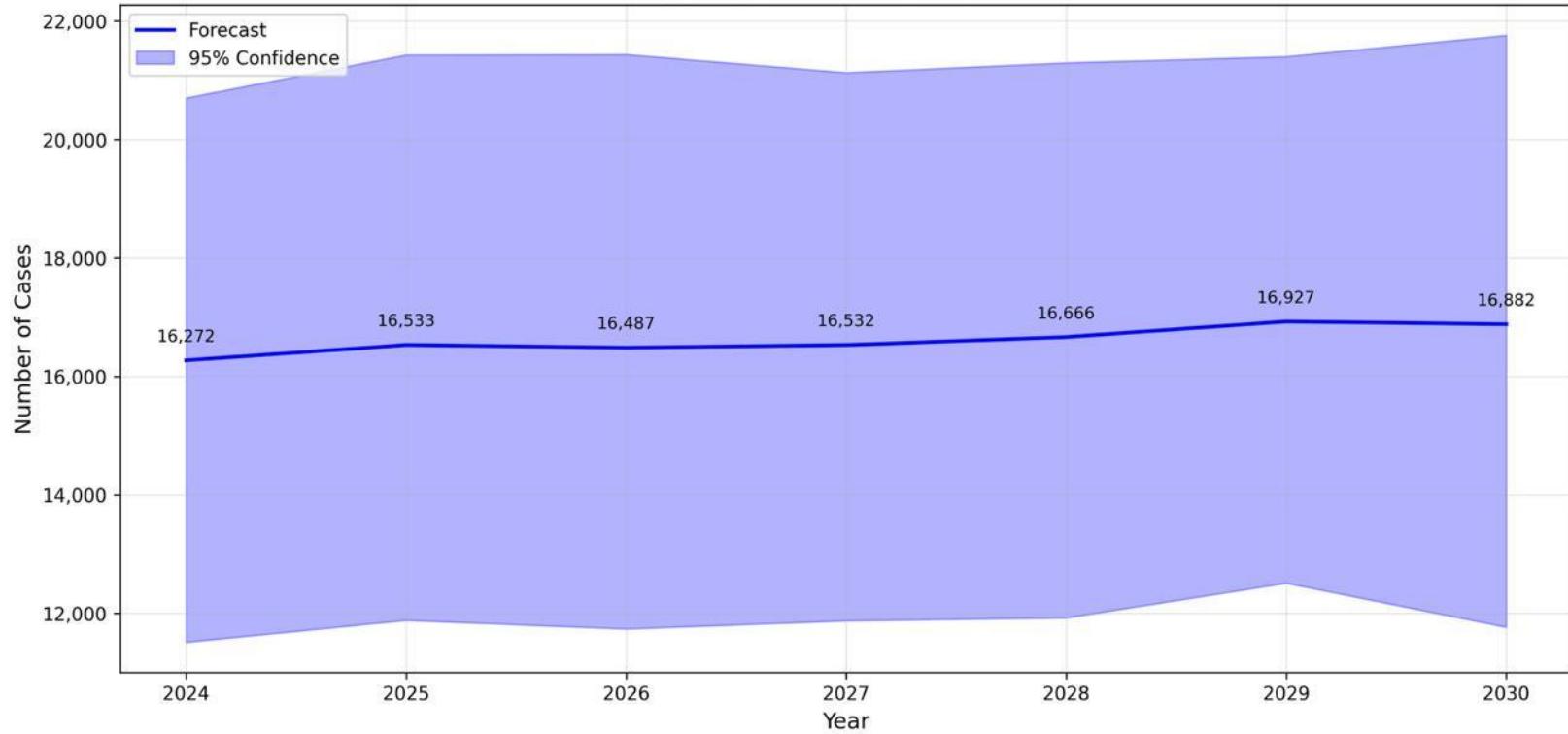
Enrollment rates have been increasing annually. The model predicted steady growth until reaching a realistic ceiling of around 98% by 2030, reflecting continuous improvement in education.

## Addiction - Forecast 2024-2030



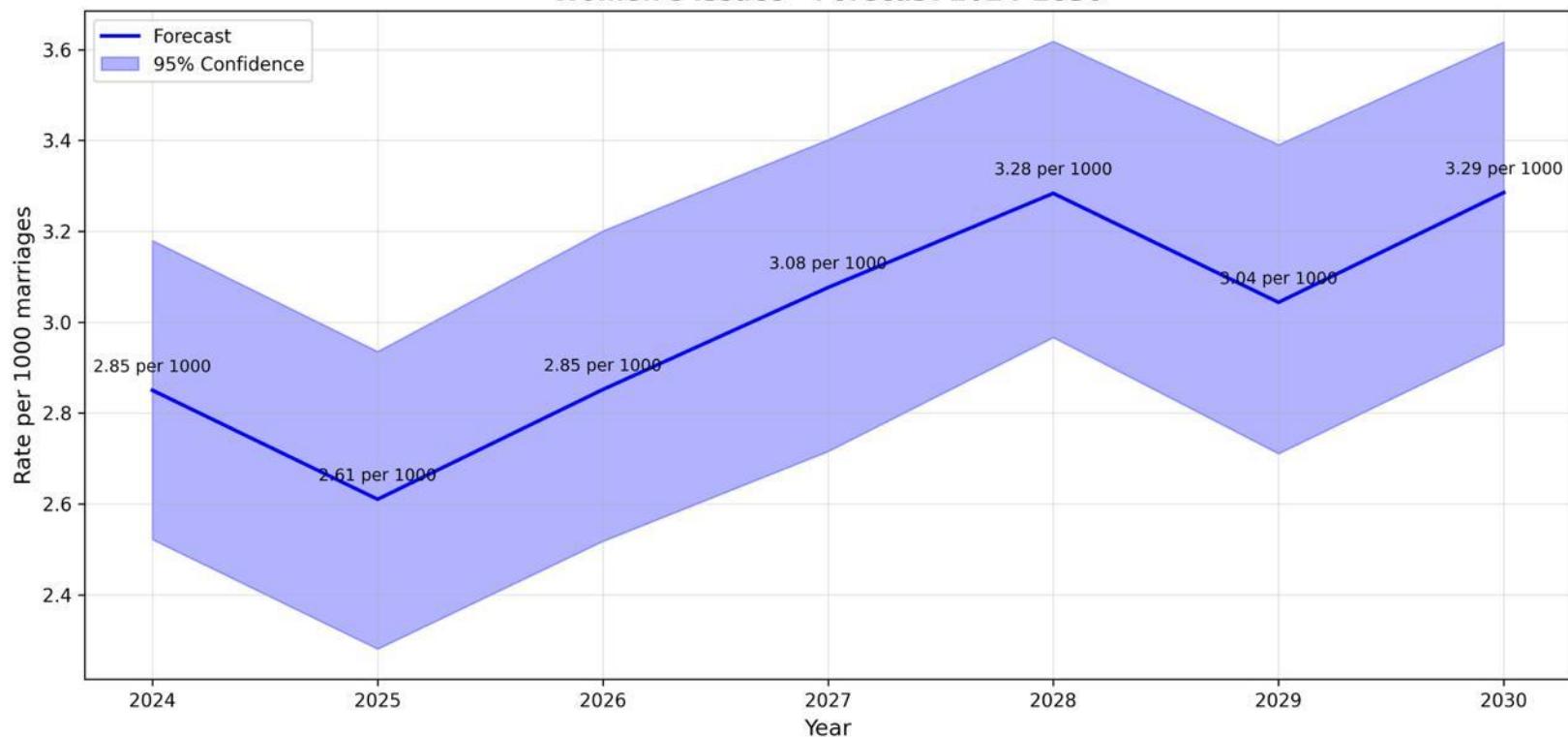
Addiction showed a slight decrease in the historical data. The model predicted that the trend would continue slightly, meaning current efforts are having some impact, but it is not sufficient yet.

## Begging - Forecast 2024-2030



This issue was mostly stable, with a slight increase in recent years. Prophet predicted a slight rise until 2030, indicating that the problem exists but is not changing rapidly.

### Women's Issues - Forecast 2024-2030



This issue, in contrast, showed a continuous increase due to economic and social pressures.

Prophet predicted the increase to continue until 2030, which is a critical indicator requiring urgent intervention and stronger support policies for women and families.