Hello, and welcome to our UI demonstration

for the 'Hospital Bed and Resource Prediction' project.

This interactive dashboard is designed to help healthcare administrators

forecast hospital bed utilization and staffing shortages,

supporting more efficient decision-making.

Let’s start with the 'Overview' section.

Here, you can quickly see key insights like:

Hospital Bed Utilization Over Time:

Track the trends in bed usage.

Average Daily COVID-19 Admissions by Age Group:

See how admissions are distributed across different age groups.

Top 10 States by COVID-19 Admissions:

Identify which states have the highest rates.

Top 10 States by Staffing Shortages:

View states most affected by staffing issues.

Hospital Burden & Staffing Crisis Breakdown:

This visualizes the level of pressure hospitals are facing,

helping administrators assess the current situation.

Next, we have the 'Maps' section.

Here, you can explore hospital bed utilization by state.

First, we show the 'Current State-wise Average Bed Utilization,'

which displays the current data.

Then, the 'Predicted State-wise Bed Utilization'

allows you to drag a slider

and predict utilization for the next 1 to 8 weeks.

The map updates dynamically based on your selections.

In the 'Inpatient Bed Utilization' section,

you can adjust various factors such as the season,

admission rate, emergency surge, and staff shortages.

Once you click 'Confirm,'

the system will show you a comparison

between the 'adjusted' and 'original' inpatient bed utilization trends,

helping you see how these factors affect bed availability.

Finally, in the 'Staffing Shortage Status' section,

we predict staffing shortages based on current trends.

This feature is still under development but will soon be available,

helping administrators plan for future staffing needs

and proactively address potential shortages.

Stay tuned for updates,

and feel free to reach out for more information!

Thank you for watching our UI demonstration!