Healthcare Appointment No-Show Prediction

Dashboard Title: Healthcare Appointment No-Show Prediction Dashboard

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Purpose:

The dashboard visually analyzes patient attendance behavior and identifies factors contributing to missed healthcare appointments. It helps stakeholders understand trends and optimize scheduling strategies.

Key Dashboard Features:

Show Status Overview (Donut Chart):

> **Showed:** ~79.74%

> **No-Showed:** ~20.26%

> Visual representation of overall attendance behavior.

Age Group vs Showed_up (Area Chart):

> Younger patients (0–20 years) exhibit higher no-show rates.

> Attendance trends stabilize with age.

Gender vs Showed_up (Bar Chart):

> Slightly more **females** missed appointments than males.

> Male patients showed higher attendance in comparison.

Neighbourhood-wise No-Shows (Bar Chart):

> Top contributing neighborhoods with high no-show rates are clearly identified.

> Useful for geographic targeting or intervention planning.

Scholarship & Attendance (Stacked Bar):

> Patients receiving scholarships show varied attendance.

> Scholarship status can be a predictor of attendance likelihood.

Appointment Day Trend (Clustered Column):

> No-show patterns fluctuate based on the **day of the appointment**.

> Useful for adjusting high-risk day scheduling.

SMS Received vs Showed_up (100% Stacked Bar):

> **Patients who received SMS reminders** were more likely to attend.

> Reinforces the importance of reminder systems.

Interactive Filters (Slicers):

> Filters for **Gender, SMS_received, Scholarship**

Insights:

SMS reminders significantly increase attendance.

Targeted strategies are needed for younger patients and specific neighborhoods.

Scheduling flexibility and additional reminders can help reduce no-shows.