

REPORT OF PROJECT

HEALTHCARE NO SHOWS PREDICTOR

INTRODUCTION:

- This project namely “*Healthcare No shows Predictor*” helps the patients to determine whether they will miss the appointment to the respective specialist or they will attend it on time.
- This project will help the patients in this fast growing world to determine their status of the appointment so that they can adjust their work accordingly and try to meet with their time of appointment.

ABSTRACT:

- Missed medical appointments, or "no-shows," pose a significant challenge to healthcare systems by leading to inefficient resource utilization and increased operational costs. This project presents a machine learning-based solution to predict patient no-shows using historical appointment data. By analyzing features such as patient demographics, health conditions, SMS reminders, and time-related factors, a predictive model was trained to identify the likelihood of a patient missing an appointment.
- Also by utilising this we can build the recommender system which helps the patients to recommend them the best slot available so that they cannot miss the appointment and hence optimize the scheduling.

TOOLS USED:





STEPS INVOLVED IN BUILDING THE PROJECT:

Followed the ML Pipeline in building this Project which includes:

- 1) Data Collection
- 2) Data Preprocessing
- 3) Exploratory Data Analysis
- 4) Data Visualisation
- 5) Data Modelling
- 6) Evaluation Of Model
- 7) Hyperparamter Tuning

CONCLUSION:

Finally ,We have created the Project which helps in efficient utlization of resources and also leads to recommend the patients the slots which leads to minimize the appointment miss.

References:

Dataset: <https://www.kaggle.com/datasets/joniarroba/noshowappointments>

Final Project:

Github link: <https://github.com/bj1616/ELevate-Labs-Internship.git>