

CHALLENGE

Problem statement

Personalised information dashboard for asthma patients

Brief about asthma

An asthma attack is a sudden worsening of asthma symptoms caused by the tightening of muscles around your airways (bronchospasm). During the asthma attack, the lining of the airways also becomes swollen or inflamed and thicker mucus -- more than normal -- is produced. All of these factors -- bronchospasm, inflammation, and mucus production -- cause symptoms of an asthma attack such as difficulty breathing, wheezing, coughing, shortness of breath, and difficulty performing normal daily activities.

Asthma affects over 25 million people in the US alone and is responsible for 14.2 million physician visits each year as well as 1.8 million emergency care visits. The associated cost of treating this chronic disease is rising.