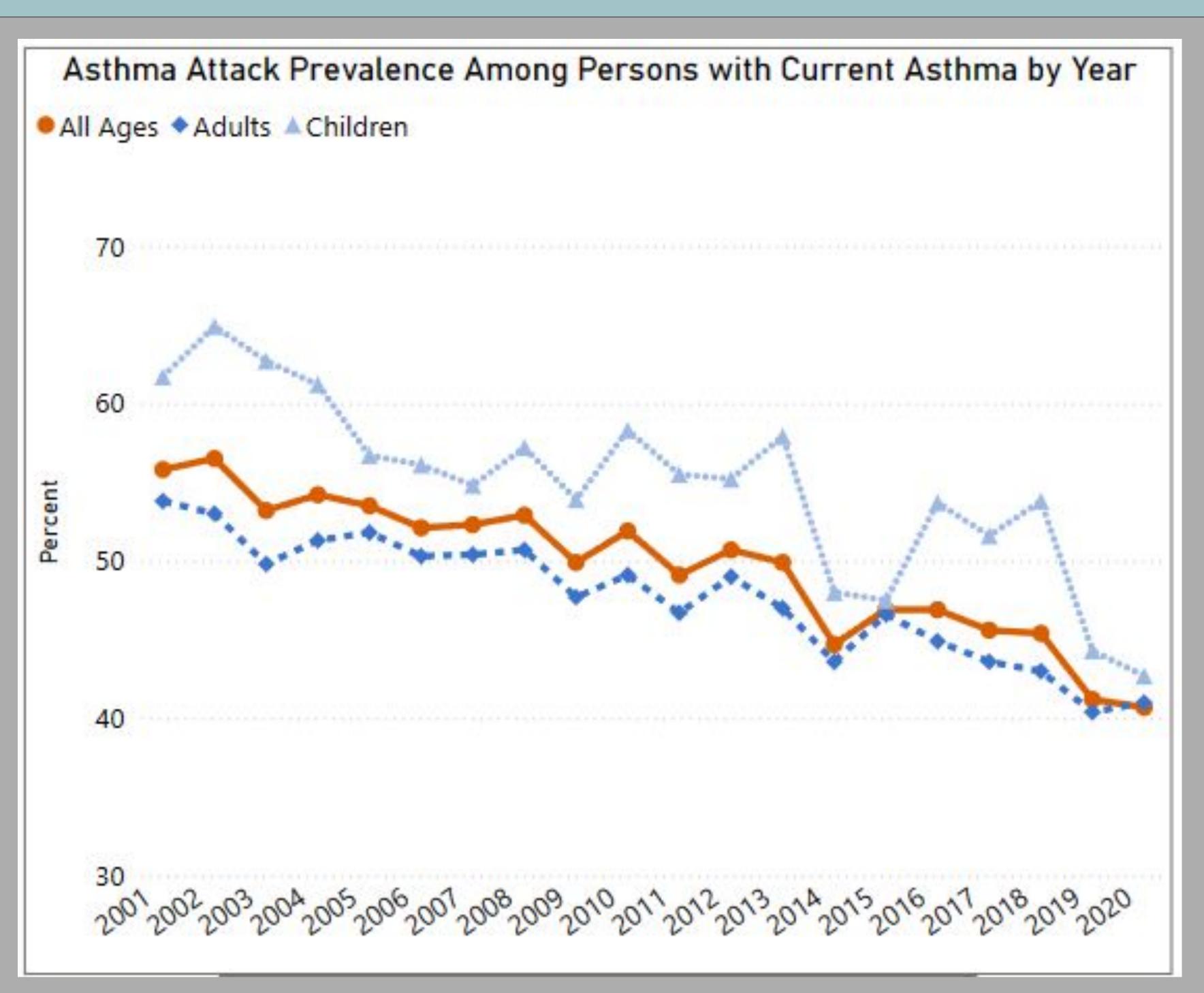
Predicting Asthma Attacks by using Machine Learning

By: John Pascoe





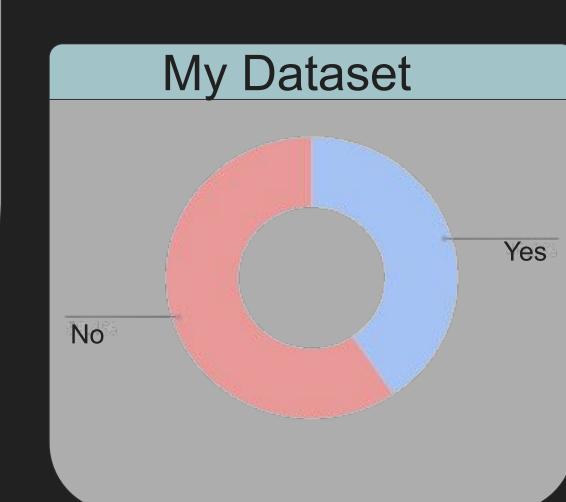


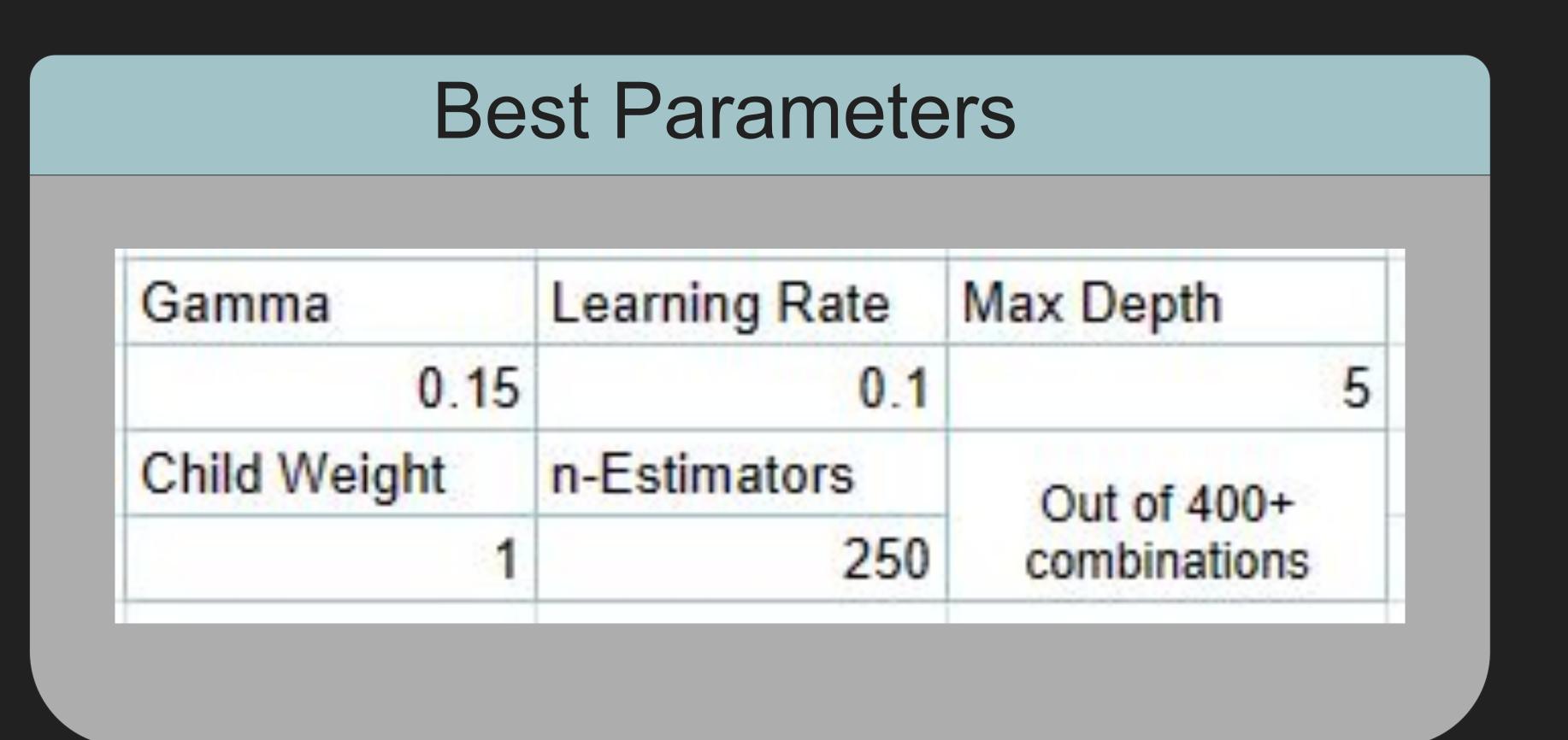
Table 1

Variable	Description	Туре	Range/Value
Age	Patient's age range at the time of data entry	Categorical	0-4, 5-14, 15-19, 20-24, 25-34, 35-64, 65+
Gender	Patient's gender	Categorical	Male, Female
Race/Ethnicity	Patient's self-identified race/ethnicity	Categorical	White, Black, American Indian/Alaskan Native(Al/AN), Asian, Hispanic, Mexican, Other Hispanic
Region	Patient's local region in the United States	Categorical	Northeast(NE), Southeast(SE), Northwest(NW), Southwest(SW)
Air Quality Index (AQI)	Average AQI for the patient's region	Continuous	0-500+
Rescue Use	Recent (within 3 months) use of asthma medication to stop an attack	Categorical	Yes, No
Preventative Use	Patient's usage of asthma medication designed to prevent attacks	Categorical	Yes, No
Recent Attack	Whether patient has had an attack recently or not	Categorical	Yes, No





1 - Incorporate Real-Time Data 2 - Expand Demographic Data





- 1. Centers for Disease Control and Prevention. (2023, January 4). Asthma data visualizations. Centers for Disease Control and Prevention. https://www.cdc.gov/asthma/data-visualizations/default.htm
- 2. lung cartoon stock image no background Search Images (bing.com)

