

Executive Summary

Jadr Health Insights

Justin Bartell, Abigail Guilliat, Darrell Gerber, Regina Huber

Our project will provide a real-time tool predicting the effect of current environmental conditions on asthmatic-induced emergency room visits. People living with asthma and health professionals can use a dashboard to evaluate the asthma severity given current conditions in their locale. Further, our report will include the correlation between manufacturing industries and asthmatic emergency room visits. This could help public policy makers quantify the health effects of new manufacturing in their region.

Major Project Questions:

1. What is the correlation between air quality metrics and asthma-related emergency visits?
2. How do asthma-related emergency visits correlate with types of local industries?
3. Are types of local industries and air quality metrics collinear?
4. What is the projected asthma risk for a selected county in the US based on the modeled relationships from California?