COVID-19 Outbreak Detection Tool

A tool to detect recent COVID-19 outbreaks in U.S. counties. The tool leverages machine learning to predict how fast an outbreak could spread at the county level by estimating the doubling time of COVID-19 cases.

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The doubling time calculation accounts for:
- Reported COVID-19 cases and deaths
- Social vulnerability (such as income level)
- Face mask mandates
- Changes in tests performed
- Social distancing policies
- Rate of positive tests

The intensity of new outbreaks can be determined by identifying counties with a short doubling time, such as Broome County, NY. This can help states that are experiencing a rise in new cases target areas for increased resources.

Broome County, New York
Doubling time: 1 - 2 weeks
Average daily cases (past week): 73