

CloudreachTM

CV-19 State Projection Platform

Our CV-19 State Projection Platform

A comprehensive data analytics and visualization platform showing current pandemic status and a variety of state specific projections modeling the effectiveness of executive orders and public response.

Examples of what our solution can provide include:

- Current and projected COVID-19 cases (contracted and morbidity) by state, county, zip
- Comparison of multiple popular projection models simultaneously
- Supply (Beds, ventilators, etc.) utilization and projections
- Waze API integration for correlation of vehicle traffic flow with COVID-19 cases (capturing sprawl speed, volume, and direction)
- Current and projected of inbound (via flights) cases based on origin sources
- Intelligent routing of emergency and supply vehicles based on supply at care facilities

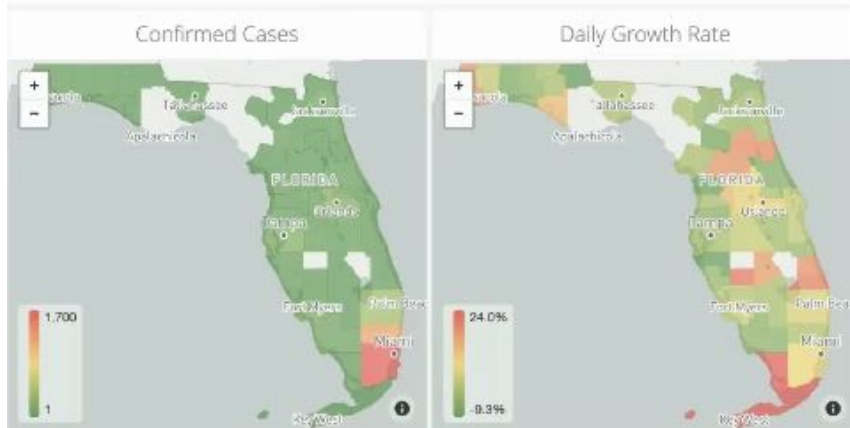
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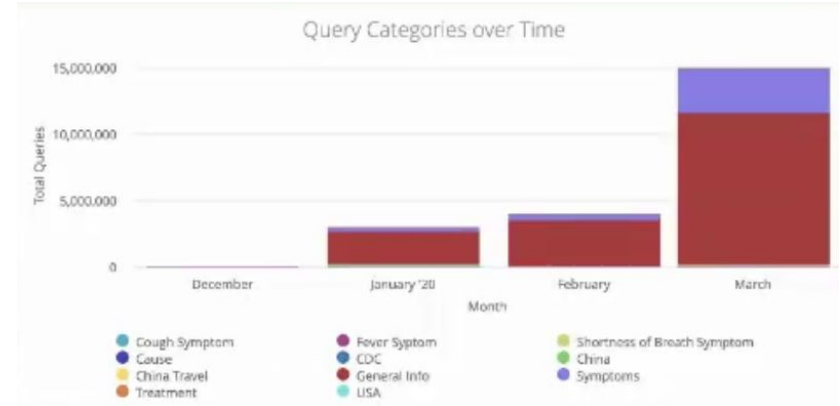
Typical questions we can help answer include:

- Where are the current infections and what are the projection cases by county and zip?
- How does my model compare with popular projections models?
- What is my current supply situation (Beds, ventilators, etc.), what is the projection for additional capacity, and when will I exceed capacity?
- How do I manage vehicle traffic flow to track spread, minimize sprawl and accelerate emergency response?
- What are the current and projected inbound (via flights) cases based on origin sources?
- Intelligent routing of emergency and supply vehicles based on supply at care facilities

Examples from the State of Florida



Heatmap of cases and growth rates



In-region search queries over time

| Hospital Name | Hospital Type | Count Licensed B... | Count Staffed Beds | Count Staffed Be... | Count ICU Beds |
|--------------------------|------------------------|---------------------|--------------------|---------------------|----------------|
| 1 Jackson Memorial H... | Short Term Acute Ca... | 1,493 | 1,457 | 1,022 | 26 |
| 2 Doctors Hospital ... | Short Term Acute Ca... | 281 | 281 | 68 | 12 |
| 3 Larkin Community ... | Short Term Acute Ca... | 146 | 111 | 70 | 8 |
| 4 Baptist Hospital ... | Short Term Acute Ca... | 728 | 705 | 483 | 40 |
| 5 Hialeah Hospital ... | Short Term Acute Ca... | 378 | 362 | 134 | 21 |
| 6 Larkin Community ... | Short Term Acute Ca... | 247 | 119 | 51 | 14 |
| 7 Westchester Genera... | Short Term Acute Ca... | 125 | 125 | 53 | 8 |
| 8 South Miami Hospit... | Short Term Acute Ca... | 435 | 436 | 200 | 28 |
| 9 Coral Gables Hometr... | Short Term Acute Ca... | 945 | 245 | 80 | 16 |

Supply (Beds, Ventilators, etc.) tracker and alerts



Custom high level "Critical" metrics
Immediate push notification on change

How We Do It

- World class Cloudearch Data Scientists address **your specific questions**
- Ingest **your data** (healthcare, transportation, emergency response) and, if desired, combine and/or contrast it with public data for the broadest understanding
- Apply **multiple simultaneous projection models**, including your own
- Leverage Google Cloud's global scale data platform ensure secure access to **you, your team, and your constituents**
- **Your questions visualized** quickly by way of Rapid Data Visualizations from Looker

Other References of Our Work



New York City Cyber Command

The largest real-time Event Threat Detection data pipeline protecting all of NYC from cyberthreat

Colorado Dept of Transportation



Transformational Smart Highway Implementation using existing highway infrastructure paired with machine learning



United States Air Force

Modernization of every USAFB while increasing their security posture through Zero Trust and Event Threat Detection

National Institute of Health



FedRAMP High compliant cloud environment for applying data science to fight cancer

About Cloudreach

- A leading global cloud services provider
- Expertise in cloud engineering, data analytics, cybersecurity
- Incorporated 2009
- Blackstone Owned since 2017
- 300+ cloud engineers
- 800+ cloud certifications across GCP, AWS, Azure
- Offices throughout Europe and North America



Let's GO!

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