



How using AWS Data Exchange can answer tough questions

Kaitlin Swartwood, Natasha Cherneykina
November 16th, 2020



Welcome



Kaitlin Swartwood
Startups Business Development Manager
AWS Data Exchange



Natasha Cherneykina
Software Development Manager
AWS Data Exchange



AWS Data Exchange Challenge

aws marketplace

Overview

Participants (1359)

Rules

Project gallery

Updates

Discussions

Categories

Resources

Featured Providers

Build answers to tough questions on AWS using hundreds of data sets from AWS Data Exchange

AWS Data Exchange makes it easy to find, subscribe to, and use third-party data in the cloud. Data scientists, data analysts, and developers in nearly every industry use AWS Data Exchange for access to 3rd-party data to drive analytics, train machine-learning models, and make data-driven decisions. Today, AWS Data Exchange contains over 2,300 data products from 120+ providers from a broad range of domains including healthcare, financial services, retail, and more.

The AWS Data Exchange Challenge is an opportunity for you to show off your skills, learn something new, collaborate with other developers, and get a shot at part of \$35,700 in prizes.

You're invited to build solutions to answer tough questions using 3rd-party data products from AWS Data Exchange.

The AWS Data Exchange catalogue is available globally with commercial data products from category-leading data providers across industries such as financial services, healthcare, retail, media & entertainment, and more. AWS Data Exchange includes hundreds of free data sets too, including data collected from popular public sources, as well as trials for commercial products so customers can explore before they subscribe. AWS Data Exchange removes the friction of finding, licensing, and accessing data, eliminating the need to receive physical media, manage FTP credentials, query syndicated data platforms, or integrate with different APIs from multiple providers. Once subscribed to a data product, entitled customers use a single AWS Data Exchange API to natively copy the data sets from any provider. Revisions are pushed to subscribers as they are published via CloudWatch events to ensure their automated workloads process the most current data.

This hackathon has ended.

Discover more hackathons

View the winners

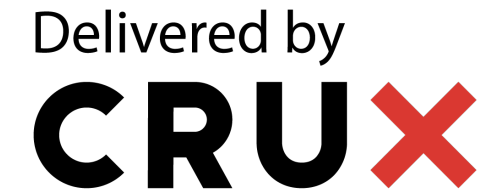
Tell your friends



This site is protected by reCAPTCHA and the Google Privacy Policy and Terms of Service apply.



Featured data providers



PRIZES

\$35,700 in prizes

★ Best in Data Visualization

- \$5,000 USD
- \$4,000 AWS Credits
- Meeting with AWS Data Exchange service lead
- Featured in AWS Blog Post
- Featured on select AWS social channels

★ Best in Data and Machine Learning

- \$5,000 USD
- \$4,000 AWS Credits
- Meeting with AWS Data Exchange service lead
- Featured in AWS Blog Post
- Featured on select AWS social channels

★ Best Financial Services Solution

- \$1,500 USD
- \$1,000 AWS Credits
- Featured in AWS Blog Post
- Featured on select AWS social channels

★ Honorable Mention (2)

- \$500 USD
- \$100 AWS Credits
- Featured in AWS Blog Post
- Featured on select AWS social channels

★ Best in Data Analysis

- \$5,000 USD
- \$4,000 AWS Credits
- Meeting with AWS Data Exchange service lead
- Featured in AWS Blog Post
- Featured on select AWS social channels

★ Best Healthcare Solution

- \$1,500 USD
- \$1,000 AWS Credits
- Featured in AWS Blog Post
- Featured on select AWS social channels

★ Best Retail Solution

- \$1,500 USD
- \$1,000 AWS Credits
- Featured in AWS Blog Post
- Featured on select AWS social channels

★ Large Organization

- Recognition only
- Featured in AWS Blog Post

JUDGES



Garth Fort
Director PM, AWS Marketplace



Stephen Orban
GM, AWS Data Exchange



Colin Marden
Global Solutions Architect



Nam Le
Sr. Solutions Architect, AWS Marketplace and Data Exchange



Kanchan Waikar
Sr. Solutions Architect, AWS Marketplace and Data Exchange

JUDGING CRITERIA

Quality of the Idea

(Includes creativity and originality of the idea.)

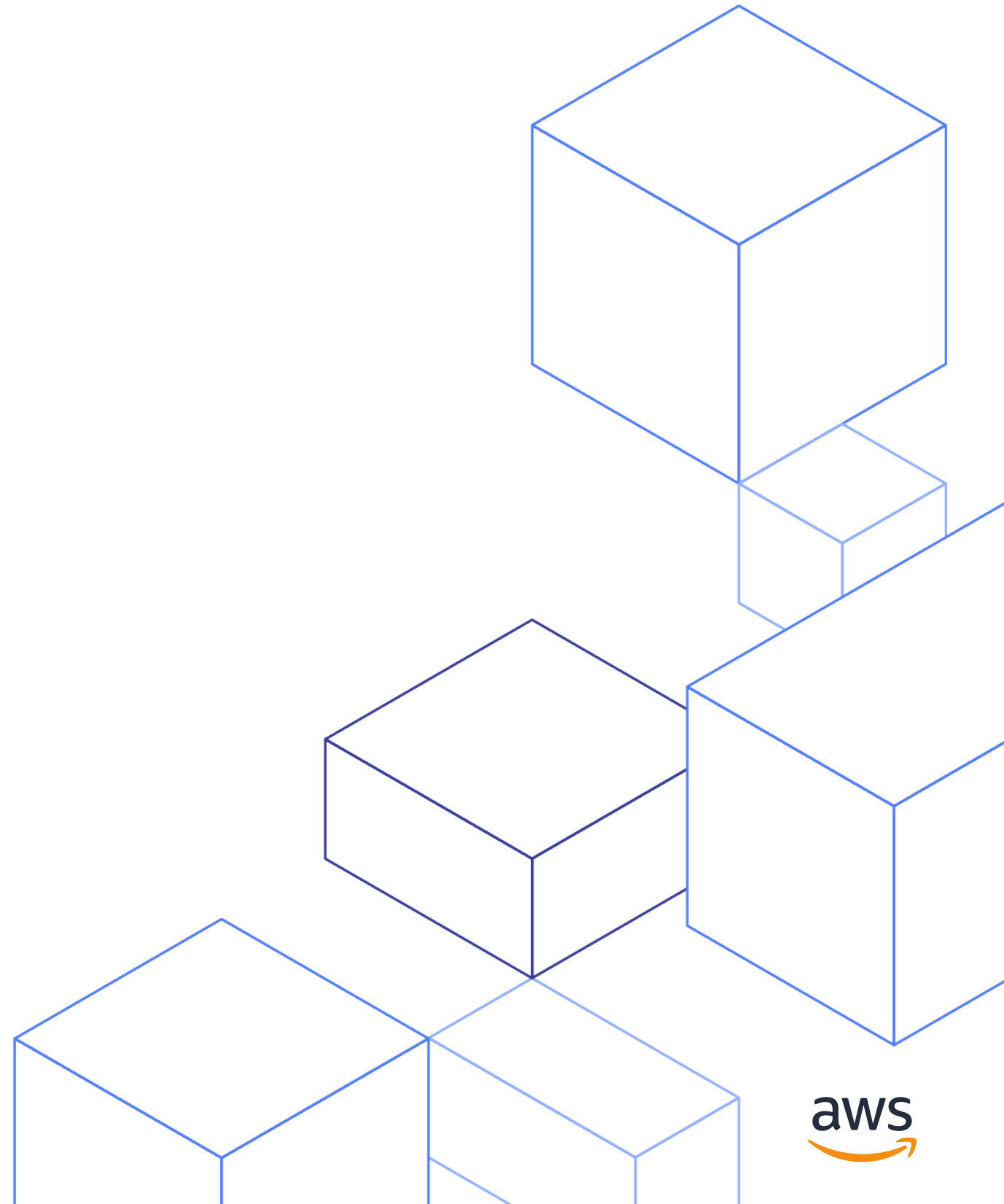
Implementation of the Idea

(Includes how well the idea was executed by the developer and the extent to which the underlying data was leveraged by the developer.)

Potential Value

(Includes the extent to which the solution has the most positive impact for users and/or customers.)

Winning Solutions



Access and Equity: Health Vulnerability Mapper COVID-19

Best in Data Visualization

Best Healthcare Solution

An interactive map-based web application that highlights the relationships between socioeconomic disparity and COVID-19 across the U.S. in an intuitive, real-time, & tangible medium.

CREATED BY



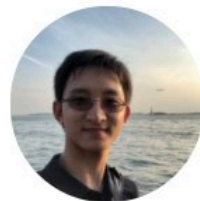
Ethan McFarlin

Harvard College Freshman



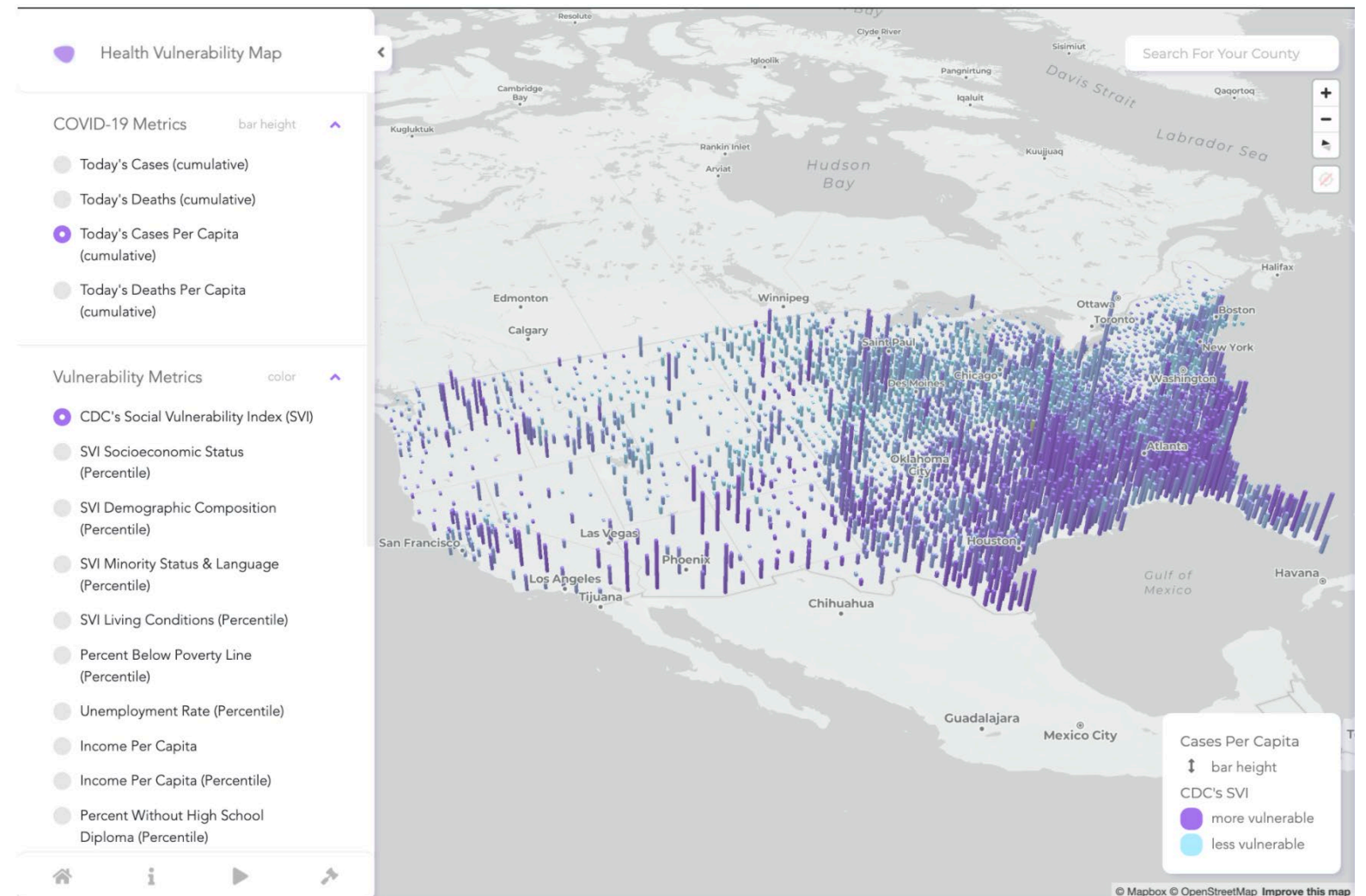
Iris Xia

Stanford University
Freshman



Sean Yang

Incoming Amazon Intern •
Harvard College Freshman



graphMap

Best in Data Analysis

Best Retail Solution

Analyze relations between multiple datasets with geo-location and network science

CREATED BY

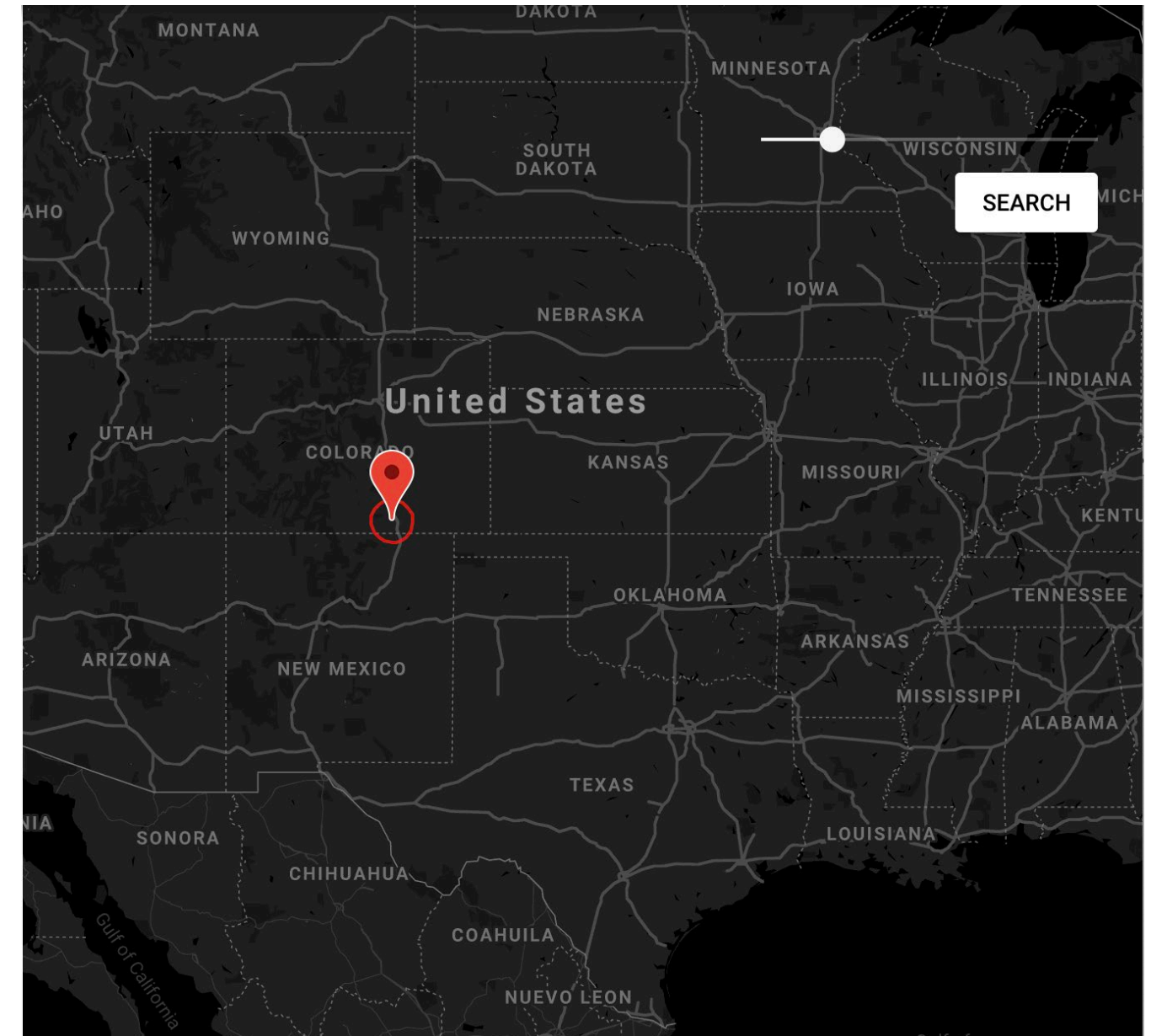


Horacio Canales

Santiago de Querétaro, Qro., MX

To use graphMap:

Drag the marker on the map, select the radius in kilometers, and click search.















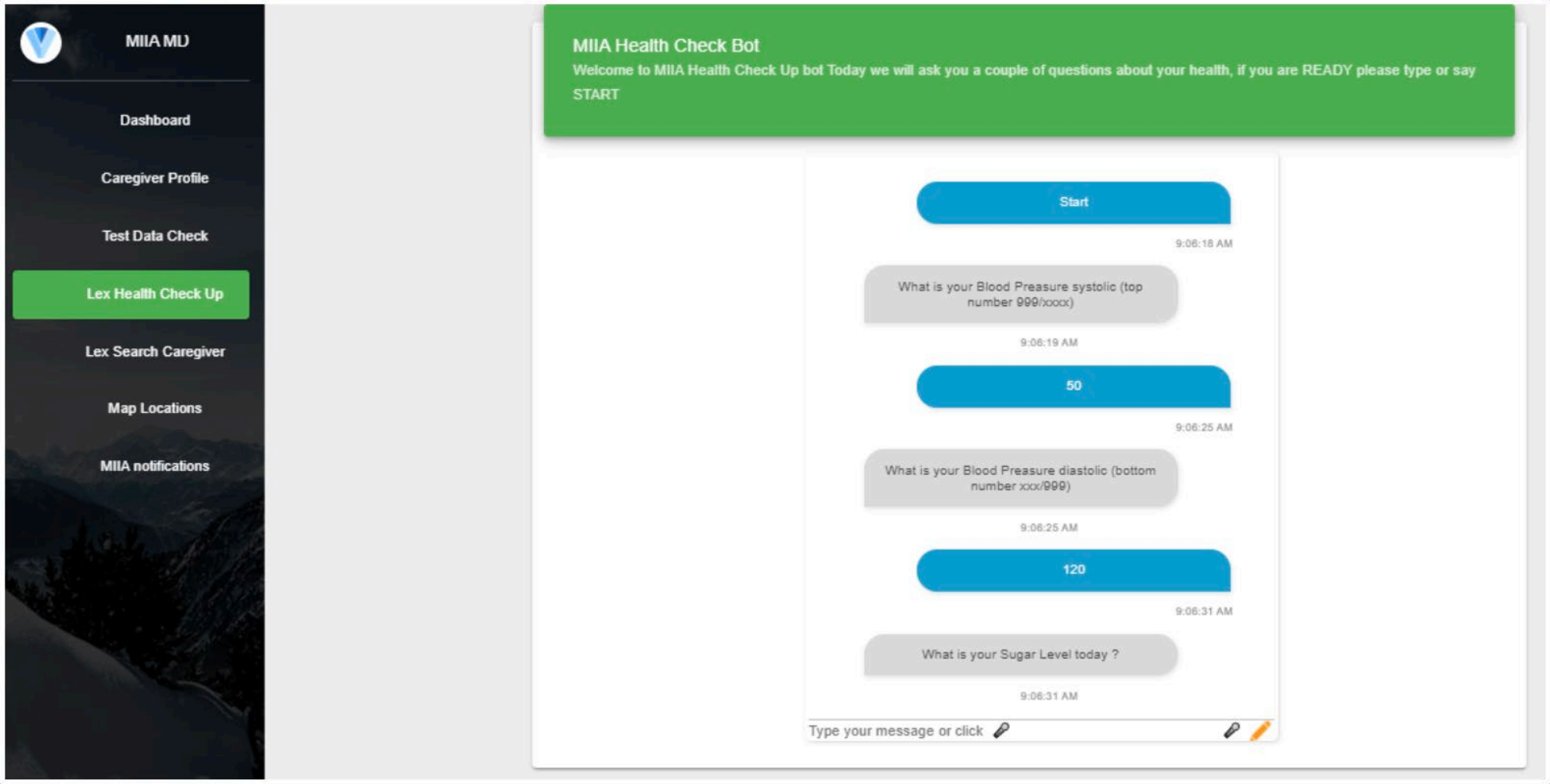
Medical intelligence applied (MIIA MD)

Best in Data and Machine Learning

A two-way health management platform for seniors and caregivers

CREATED BY

-  Karim Khattaby
-  Akhilesh Iyer
-  Deepesh Grover
-  Ava Chan
-  Chloe Chen
-  marcos a oliva
-  kevin patel
-  Li Agnes
-  Billy Zeng
-  Alice Tang
-  Rohail Khan
-  Megan Thong
Aspiring data scientist/software engineer



The screenshot displays the MIIA MD application interface. On the left is a dark navigation menu with the following items: Dashboard, Caregiver Profile, Test Data Check, Lex Health Check Up (highlighted in green), Lex Search Caregiver, Map Locations, and MIIA notifications. The main content area shows a chatbot interface titled "MIIA Health Check Bot" with a green header. The chatbot sends a welcome message: "Welcome to MIIA Health Check Up bot Today we will ask you a couple of questions about your health, if you are READY please type or say START". A blue button labeled "Start" is shown with a timestamp of 9:06:18 AM. The chatbot then asks: "What is your Blood Pressure systolic (top number 999/xxxx)". A blue button with the value "50" is shown with a timestamp of 9:06:19 AM. The chatbot then asks: "What is your Blood Pressure diastolic (bottom number xxx/999)". A blue button with the value "120" is shown with a timestamp of 9:06:25 AM. Finally, the chatbot asks: "What is your Sugar Level today?". A text input field is shown with a timestamp of 9:06:31 AM. The bottom of the chat interface has a text input field with the placeholder "Type your message or click" and a send button.



Claims ML based Subrogation Recovery Prediction

Large Organization

Get a little closer to reality!

CREATED BY



Priyanka Balakumar



Manisha Kumari



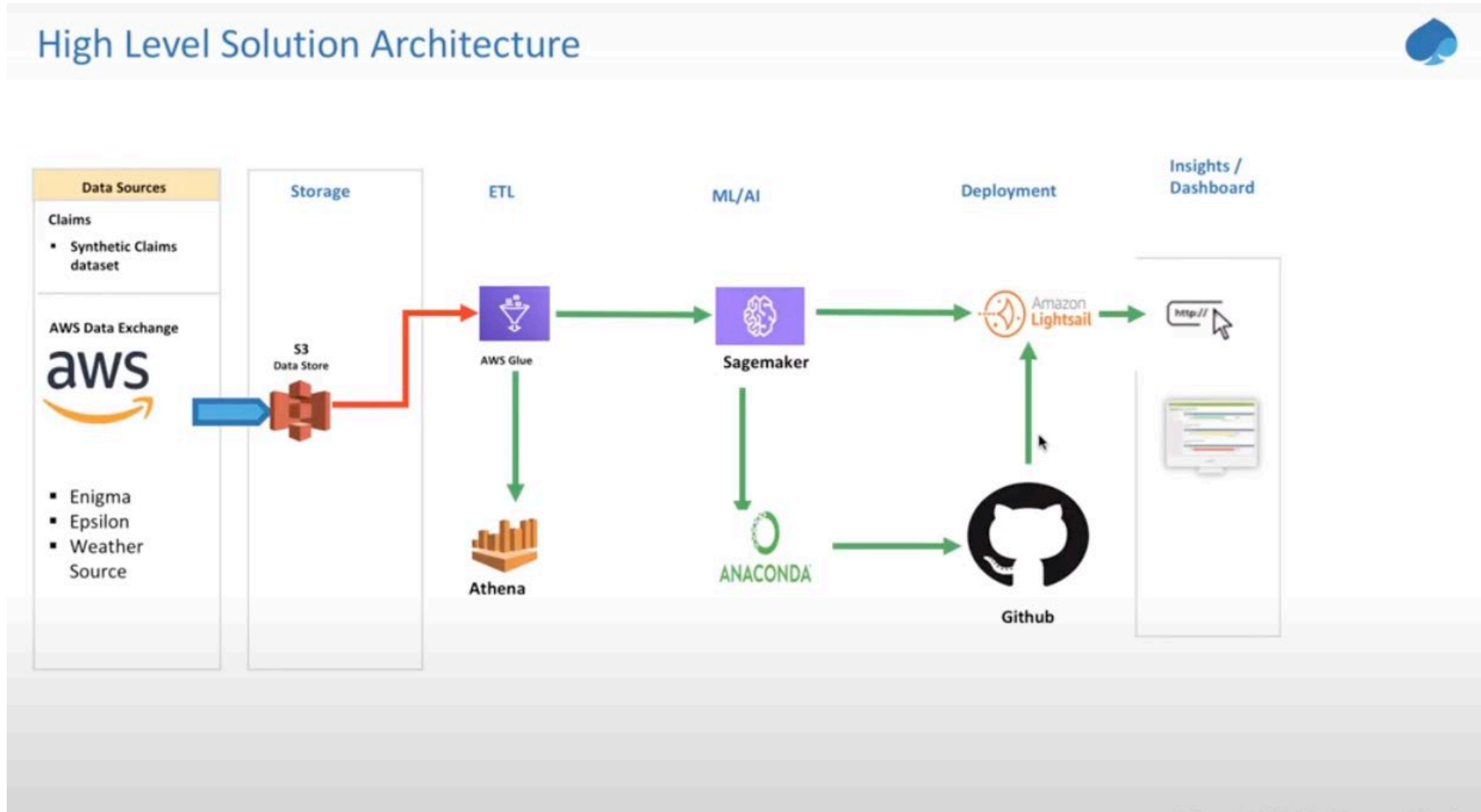
Sumeet Kumar



Vedant Vasishtha



Giridhar Mynampati



TrackMyCovid

Honorable Mention

A mobile app which gives you a risk analysis of contracting COVID19 based on the places you have been to and analyzing the amount of cases recorded and your time spent in each place.

CREATED BY



Rohit Ganti



Abhishek Kumar



appidi abhinav

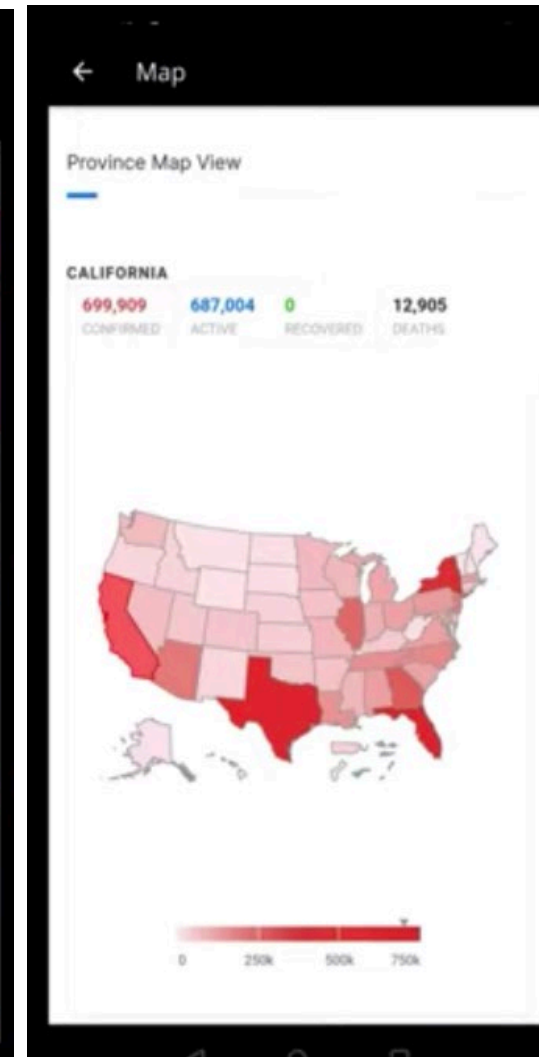
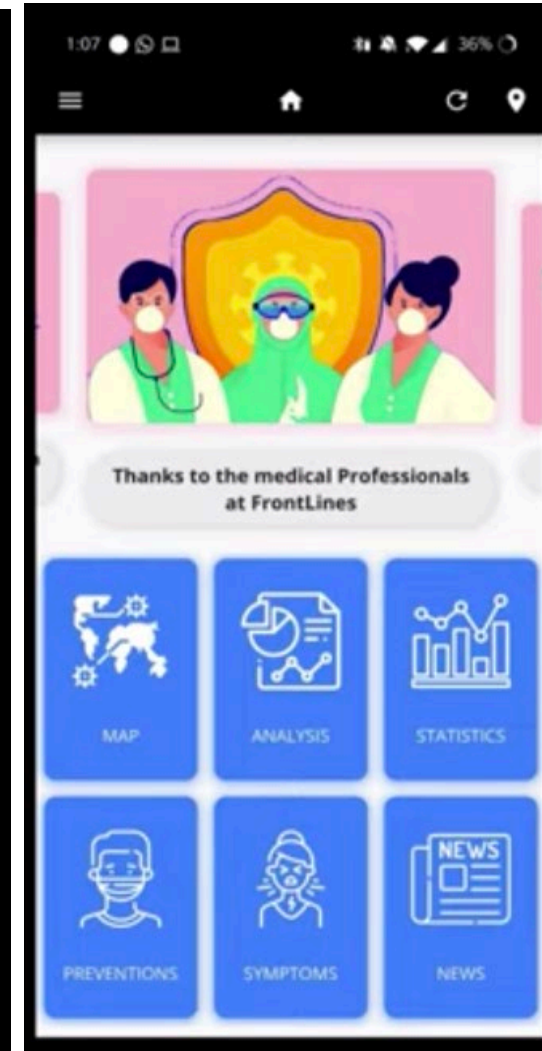
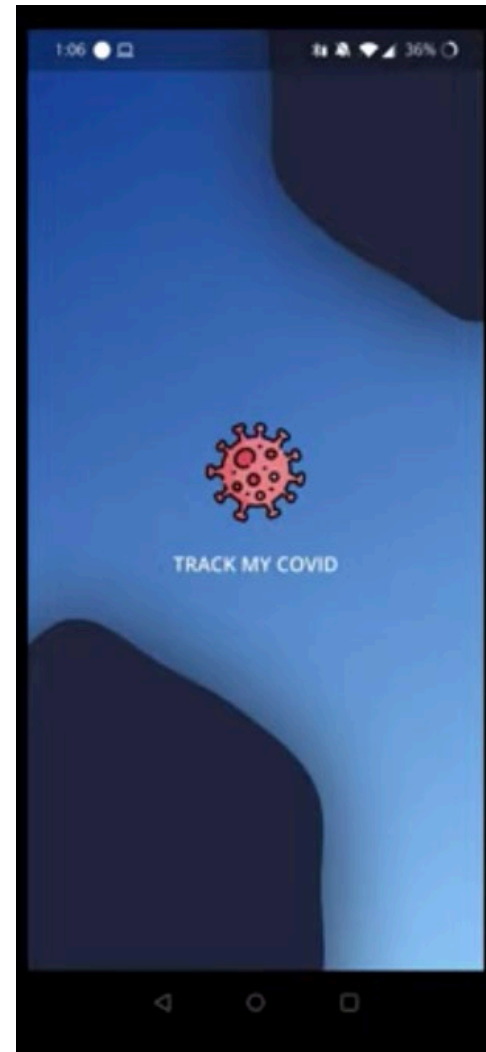


KrishNa



Arshdeep Singh

WINNER - AWS DATA EXCHANGE ||
GOCC(Google Online Coding Challenge) ||
Github Arctic Code Vault Contributor || Flutter ||



freshAir

Honorable Mention

Track air pollution across the world and see its impact instantly.
How can we keep our air FRESH?

CREATED BY



Nicole Streltsov
Engineering Science
student at the University of
Toronto



Siddharth M

The screenshot shows a web browser window with the URL `master.d19vsle5yfokw7.amplifyapp.com`. The page content includes:

- Our Mission**: To raise awareness about air pollution across the world and provide resources/visuals to analyze the pollutants disposed of in the past. We believe that learning from the past and acknowledging our harmful impact on the environment, we as a human race can move forward in creating a more sustainable and healthy future for the next generation. FreshAir provides the data, interpolation of trends, the ranking of countries, and an interactive map for discovering the effects of air pollution throughout the years.
- How You Can Reduce Air Pollution**: Change starts with you. Do not wait for governments or industries to start preventing pollution and global warming, its up to you to start.
- Maintain minimal pollution from your car**: Reduce the number of trips you take with your car, carpool/bike/walk whenever you can, consider zero or near-zero emission cars, and keep your car in good shape- to prevent unnecessary smog coming from your exhaust pipe.
- Reduce fireplace or woodstove use**: Smog is created from open flames so the use of these things should be minimal. Consider using electric lighters and lighter fluid that produces fewer emissions than traditional charcoal lighter fluid to start the fires.
- Reconsider how you use your energy**: Install for energy-efficient lighting and appliances, use the thermostat wisely (eg. make your thermostat a few degrees cooler in the winter, and consider using solar power or other eco-friendly energy sources.
- Take care in what products you use**: Avoid or minimize aerosol products-that contribute to smog, and instead look for water-based options. As well, buy products that are reusable and avoid plastic water bottles due to their waste and harmful factory production.

Congratulations to all category winners!

Stay connected to upcoming events:

<https://awsdataexchange.devpost.com/project-gallery>

<https://pages.awscloud.com/aws-data-exchange-newsletter-registration.html>

<https://aws.amazon.com/data-exchange/macroeconomics>

<https://aws.amazon.com/data-exchange/covid-19>

Q&A

