

2019 Vivli Datathon

Team: DATA HACK

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Summary Description of Solution

- Use of “machine learning” technology to create a data analytics tool whereby the researcher does not have to see the patient-level data.
- Researchers are provided with a tool that masks the sensitive data with an image, but the analytical tool is able to read the data and conduct the analysis to provide the results for the researcher.
- The tool will provide the necessary functionality to use the image for the data being used for analysis.
- The key functionality of the solution is to provide a new method of data representation that protects data privacy and provides valuable metrics

Objective

- Protect Patient Personal Information (PPI)
- Provide a useful tool and service for researchers to conduct various real-world assessments on clinical data.

DATA REPRESENTATION



- Sensitive Data will be masked with the image on the right
- Variables are converted into matrix and save them into an image

