

# USING DATA SCIENCE TO BETTER STRUCTURE MEDICAL RECORDS WHEN SECONDS COUNT

The growth of electronic health records is exponentially increasing the amount of information about patients available to their physicians. To better serve patients, the team at the MedStar

MedStar Health organization—sought a scientific solution to this technology challenge in collaboration with the data science team at Booz Allen Hamilton. Together, they applied

created a solution to this vexing problem.

## THE CHALLENGE

notes, it is difficult to know what few top facts will make a difference in the patient's care.

in the computer.' And while we do have a lot of information on them, key facts can often be buried in their record. The

chronological journal without an index in the back. If someone

fact in their history may be on page 20. But if they are there

on page 121. Currently, there is no way to know which page to turn to."

## THE APPROACH

To bring a technology solution to this emergency care challenge, Booz Allen coupled its deep data science background

subject matter experts at MI2. As Booz Allen worked on code and set up the API, MedStar clinician experts evaluated and

information that would be most relevant to a user.

Together, the teams developed a technology called Dictation

patient's complete medical history. With this technology in place, clinicians can quickly find the relevant signal in the noise in moments of urgent care.

nearly 10 years. He says the Dictation Lens technology "looks at all different types of unstructured data, and then based on

care to provide."

"It's all about getting relevant key terms," Maloy adds. "One

another. This system takes the symptoms presented and finds

a user-friendly fashion."

patients," says Maloy. "When I work with the people at Booz Allen, I'm astounded by the complexity in making this situation actually work."



## THE SOLUTION

Booz Allen data scientists were able to unlock a solution in an area of great need. Their partnership resulted in a MedStar pilot program for Dictation Lens technology.

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