Empowering Your Data

Securely. Efficiently. Responsibly.

sapiensecure®

AWS Turns to SapienSecure® for International Research Collaboration

Challenge

AWS required extraction and de-identification of thousands of Chest CT scans with associated health records data. How soon can this be accomplished, and are we able to segment only for patients with COVID 19 pneumonia? We have six (6) countries across three (3) continents that need to connect data.

AWS sought to create a pandemic-fighting AI model and turned to SapienSecure for help. Collaborators from the United States, Canada, South Korea, Italy, China, and the Middle East participated in the sharing of data, using SapienSecure, to create a COVID-19 infection model for CT scans.

Upon implementation at each of these centers, SapienSecure extracted and de-identified thousands of patient records across collaborating facilities to enable AI Partners (AWS, Xtract.ai, Element AI, md.ai) to develop a state-of-the-art AI model. SapienSecure is flexible and capable of respecting multiple jurisdictional laws around privacy and security.

Result

AI partners were able to access data securely and faster than the industry standard, empowering their teams to make cutting edge AI healthcare technology.

aws

Vancouver Imaging Optimized and Increased Billing Revenue Using SapienSecure®

Challenge

How do we automate the extraction and analyze thousands of patient records with associated billings data every month and identify irregularities?

Vancouver Imaging approached SapienSecure with concerns that medical procedures were being billed incorrectly, leading to high volume of rejections, re-work by support staff, and potential loss of funds.

Using SapienSecure to identify and optimize Billing, Vancouver Imaging was able to reclaim and mitigate substantial billing errors that would have been missed and unclaimed otherwise. This resulted in a decreased billing rejection rate by 30% and accounted for an increase in revenues for each physician in excess of 15%. The client's annual license fee was recovered within the first 4 months of implementation with a total annual return on investment of over 200%.

Result

Decreased billing rejections by 30% and increased revenues by 15% per physician.

Vancouver IMAGING

SapienSecure® Empowered Providence Healthcare Data for Research and Commercialization

Challenge

How can we efficiently and affordably extract and de-identify hundreds of thousands of patient records containing lab work, clinical reports and medical images on an ongoing basis?

Providence Healthcare adopted SapienSecure to build an industry leading data pipeline which transfers data to a state-of-the-art Data Lake within Amazon Web Services (AWS). This Data Lake is used for research and collaboration with industry.

Over the course of eight months, Providence Healthcare extracted and de-identified hundreds of thousands of medical records for access within their AWS Data Lake. A dedicated internal PHC audit was conducted to test the SapienSecure platform and was conclusive in validating that zero personally identifying information existed within the outputted datasets. Pharmaceutical and Research companies were then able to access the Data Lake and conduct new research and drug discovery. Providence Healthcare generated a return of 400-500% through this work.

Result

De-Identified personal information and facilitated a state-of-the-art Data Lake with industry leading risk mitigation

Providence HEALTH CARE

Vancouver Coastal Health taps SapienSecure® to Reduce Wait-lists

Challenge

How do we automatically extract and analyze hundreds of thousands of medical service requests every month? Can this analysis reduce patient wait times and decrease clerical workloads?

Hundreds of thousands of medical imaging requests are processed by Vancouver Coastal Health annually, contributing to the large demands on human resources, equipment and operational costs, ultimately lengthening waitlist times. Vancouver Coastal Health launched a pilot project with SapienSecure in partnership with the University of British Columbia and AWS to support their wait-list reduction goals.

SapienSecure, AWS, and UBC created a natural language processing model to predict MR priority and protocol. Following the successful implementation of this pilot, VCH procured SapienSecure to operationalize and improve the SapienSecure module (MRI CANtWAIT) after projecting a 67% reduction in workforce demands.

Result

Improved operational efficiencies by 67% and optimized waitlist times, with the organization now re-investing and expanding the solution across the entire health system.

Vancouver CoastalHealth