With databases and data records growing at an exponential rate, business analysts/data scientists spend a lot of their time sifting through large datasets in an effort to generate insights for their business' products and/or services. In many cases, data providers copy or mirror their data sets so that end users (internal or external) have the ability to analyze the data in a manner that may not be secure or anonymized. This process can be inefficient and increase the risk of data breaches especially when only a certain segment of data from the dataset needs to be analyzed by an end user.

Bitnobi, Inc. has designed and developed a patented, privacy protected, data sharing platform that alleviates all of these issues by providing a solution that allows data providers to share access to data in a secure manner without releasing raw data or making copies of them. Furthermore, the platform enables the data provider to control access to virtualized segments of data so that end users can leverage a preview of data when building a data job instead of acquiring a data provider's entire data set. The end user leverages a simple, easy-to-use interface so that they can build and launch data jobs quickly on the data provider's infrastructure. Bitnobi will provide an organization with a large amount of data with the ability to share and process data in an efficient/secure manner.

Quick Summary

Sector:
Big Data

Product:
Big Data access platform

Global data protection market:
$122 Billion (ResearchAndMarkets 2020 report)

Technology Milestones:
Version 1 available for demonstration. An internal data sharing use case from a UI perspective can be found here: https://www.bitnobi.com/internal-data-sharing-use-case

Strong customer traction in government & digital health informatics market

Business Model:
Enterprise software license fee the is dependent on the number of users and data sources. Additional charges for maintenance and support

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Features:

- User attribute-based, dynamic access control for data providers.
- 100% web-based platform.
- Visual workflow interface with python and R scripting capabilities for custom queries to execute sophisticated, mathematical analysis.
- Internal data visualization tools and integration with third party, data analytic tools for advanced visualizations.
- Blockchain-based, data audit log available to data provider at any time.

Markets:

- Healthcare (https://www.cphin.ca/lung-kick-start-program/)
- Defense (https://www.prweb.com/releases/tehama_bitnobi.htm)
- Finance (https://fintechsandbox.org/startup/bitnobi-inc)
- Smart City IoT

Benefits:

- Mitigate the risk of data breaches in internal data sharing by ensuring copies of data are not being distributed, copied, or misused.
- Accelerate and simplify the data distribution/transfer process based on data security and data privacy rules that data provider stipulates.
- Enable end users of all skill levels to prototype, build and launch data queries all based on only a preview of data from the data provider.
- Securely access approved datasets from anywhere.

Intellectual Property:

- US9590992 (Grant), US10185773 (Grant), CA2855136 (Grant), "Systems and Methods of Precision Sharing of Big Data", filed on June 23, 2014.
- CA2931041 (Grant), CN10711383, US2018293283, "Systems and Methods of Controlled Sharing of Big Data", filed on November 13, 2015.
- PCT/CA2020/050006, "Distributed Governance for Shared Big Data", priority date is January 10, 2019.

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