3Cloud

CUSTOMER SPOTLIGHT
Kansas State University BCI

Kansas State University's Beef Cattle Institute moves to an Azure Data & Analytics Platform to gain remarkable insights into the beef industry

CHALLENGE

KSU/BCI provides research and solutions for veterinarians and producers in the beef industry. The institute receives data from numerous cattle feedlots and wanted to use Azure to enhance and analyze that data and enrich it with other sources such as weather and geospatial APIs. Challenges with data include ingestion, cleansing, and organizing and using data from more sources to input into their machine learning models.

SOLUTION

3Cloud deployed an Azure Data & Analytics Platform and used Azure Synapse Notebooks to ingest, cleanse, organize, and enrich the data. We also built an initial pipeline to extract weather data with an API as the first step for an ETL process where BCI can easily add more data sources for their predictive models with repeatable, parameterized scripts. In addition, 3Cloud showed KSU/BCI what is possible with Azure products, along with best practices to enable them to move forward with their goals to gain value from data & with using Power BI for reporting/ visualizations.

IMPACT

The solution we provided helped KSU/BCI to use Azure to enhance and analyze data for actionable results. The Azure Data & Analytics Platform we deployed improved their data processes, including creating operationalized, repeatable scripts so researchers can easily replicate pipelines and add data sources. This huge first step enables researchers to provide solutions for better insights/decisions for veterinarians, beef producers, and beef product consumers in regard to animal health, and put the Beef Cattle Institute on the path to more successful research with Azure.

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- Industry: Education, Research
- Employees: ~30
- Innovation Focus: Data & Analytics