

Hortifrut Optimizes Distribution of Blueberries with AI



Highlights:

- ✓ Ensuring quality blueberries arrive at the destination
- ✓ Reduce model build time from 3-5 months to 3-5 weeks
- ✓ Solve new business problems without expanding the data science team

“H2O Driverless AI is and will be instrumental in saving Hortifrut time and costs associated with growing and shipping quality blueberries to all points of the world.”

– Gonzalo Bustos, Head of Data Analytics, Hortifrut

Executive Summary

Hortifrut, based in Chile, is the largest producer of blueberries in the world and operates farms in Peru, Chile, Mexico, Argentina, the United States, Spain, Morocco, and China, with distribution of fruit across 37 countries. Hortifrut addresses 25% of the world blueberry market

and is using Driverless AI to make distribution decisions across their expansive operations. They are able to predict the quality of the blueberries from origin to final destination, increasing the consumer experience, and increasing revenue.

Challenges

Transporting fruit from the farm may take weeks, so Hortifrut had to predict the quality of produce upon arrival. Not being able to do this accurately can impact customer experience and revenue loss. But getting such predictions accurately can be a difficult task given the complexity of the distribution channel, weather data, variety of datasets, shipping times and more. If traditional machine learning methods and toolkits were used, it could easily take months to build accurate predictions that can be reliably deployed. This may also require hiring additional data science talent on the team, hence requiring additional time and budget to achieve the aforementioned business goal.

Solution Powered by H2O Driverless AI

Hortifrut leveraged Driverless AI in order to have better predictive insights into the quality of their blueberries. They used capabilities such as feature engineering, natural language processing (NLP), explainability, time-series, visualization and scoring pipelines in Driverless AI. Hortifrut is now able to scale their data science efforts in order to deliver use cases such as predicting the quality of blueberries based on features such as variety, farm origin, shipping time, vessel and packaging, without hiring additional data science talent in the team.



Results

Hortifrut achieved the following key benefits using Driverless AI:

- If the berries are spoiled at their destination, it can result in revenue loss from customer claims and also cost valuable customer satisfaction. With H2O Driverless AI, Hortifrut has saved a significant amount of money by reducing perishable claims.
- H2O Driverless AI packs advanced machine learning technology in the platform that can augment data scientists of any skill level. Hortifrut has been able to deliver real business results with a small data science team thereby improving productivity of the team.
- Hortifrut is able to reduce the model development time from 3-5 months to 3-5 weeks.

Next frontier in AI for Hortifrut

Now that Hortifrut has seen commendable results with Driverless AI by delivering fresh blueberries, they are turning to production use cases. They are using Driverless AI to predict future production of the blueberries dependent on the origin, weather, variety, and more.

Key Use Cases at Hortifrut

- Predict quality of blueberries at destination
- Distribution optimization
- Predict future production of berries

Ready to see it in action?

Driverless AI is helping companies achieve real business benefits using AI. To learn more about H2O.ai and to request a live demo of Driverless AI, visit us at www.h2o.ai.

About H2O.ai

H2O.ai is an open source leader in AI with a mission is to democratize AI for everyone. H2O.ai is transforming the use of AI with software with its category-creating visionary open source machine learning platform, H2O. More than 18,000 companies use open-source H2O in mission-critical use cases for Finance, Insurance, Healthcare, Retail, Telco, Sales and Marketing. H2O Driverless AI uses AI to do AI in order to provide an easier, faster and cheaper means of implementing data science. H2O.ai partners with leading technology companies such as NVIDIA, IBM, Intel, AWS, Microsoft Azure and Google Cloud Platform and is proud of its growing customer base which includes Capital One, Progressive Insurance, Comcast, Walgreens and MarketAxess. For more information about how H2O.ai is driving an AI transformation, visit www.h2o.ai