Verkkokauppa.com - Sales estimation and inventory optimization

Design, development and operation of modern MLOps platform with Vertex AI. Implement practices for MLOps framework and modernize the existing sales estimation and inventory optimization solution to use more well-known technologies and new tools.

The challenge
Verkkokauppa.com had a legacy ML solution that produced sales estimates and inventory optimization to automatically create purchase orders. It was running on-premise and required modernization in order to meet today's requirements for reliability and speed. Recordly was set the task of creating a modern, cloud based ML platform and helping the company to adopt MLOps framework.

The solution
A modern ML platform leveraging serverless technologies was created in Google Cloud Platform. MLOps workflows implemented with Vertex AI and cloud infrastructure managed with Terraform. Some results are transferred back to the on-premise for business applications using eventful architecture with cloud functions and pub/subs.

The results
The finalized solution has increased the throughput and prediction times significantly for critical business data. In addition the solution is modernized to take advantage of serverless technologies in GCP. The new MLOps solution is significantly more scalable due to utilization of cloud technologies.

> By working closely with the customer, Recordly has created the basis for future projects to take advantage of automation and MLOps development practices.

About Verkkokauppa.com
Verkkokauppa.com (founded 1992) is the most renowned online retail store in Finland. Verkkokauppa.com sells IT and consumer electronics and a wide range of goods for gaming, sports, pets and children. The company has over 80 000 articles in its selection. It sells the products through its four megastores and over 2500 pickup locations in Finland.
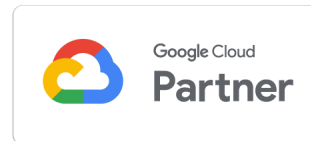
Industry: Retail & Wholesale

Primary project location: Finland

About Futurice Oy
Reference case is done by Recordly, Futurices' subsidiary that is focused in business data. We know data. We write code. We are Recordly.

Products
Google Cloud Platform