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Competitions

Datasets Kernels Discussion

Johs





## **Grupo Bimbo Inventory Demand**

Maximize sales and minimize returns of bakery goods

\$25,000 · 1,969 teams · a year ago

Overview

Data

Kernels

Discussion Leaderboard

Rules

**Late Submission** 

Competition Data		Edit
cliente_tabla.csv.zi	train.csv.zip 372.67 MB	<b>♣</b> Download
producto_tabla.csv.z sample_submission.cs		
test.csv.zip		
town_state.csv.zip train.csv.zip		
a train.csv.zip		

#### **Data Description**

In this competition, you will forecast the demand of a product for a given week, at a particular store. The dataset you are given consists of 9 weeks of sales transactions in Mexico. Every week, there are delivery trucks that deliver products to the vendors. Each transaction consists of sales and returns. Returns are the products that are unsold and expired. The demand for a product in a certain week is defined as the sales this week subtracted by the return next week.

The train and test dataset are split based on time, as well as the public and private leaderboard dataset split.

### Things to note:

- There may be products in the test set that don't exist in the train set. This is the expected behavior of inventory data, since there are new products being sold all the time. Your model should be able to accommodate this.
- There are duplicate Cliente ID's in cliente tabla, which means one Cliente ID may have multiple NombreCliente that are very similar. This is due to the NombreCliente being noisy and not standardized in the raw data, so it is up to you to decide how to clean up and use this information.
- The adjusted demand (Demanda uni equil) is always >= 0 since demand should be either 0 or a positive value. The reason that Venta\_uni\_hoy - Dev\_uni\_proxima sometimes has negative values is that the returns records

sometimes carry over a few weeks.

# File descriptions

- train.csv the training set
- **test.csv** the test set
- sample\_submission.csv a sample submission file in the correct format
- cliente tabla.csv client names (can be joined with train/test on Cliente ID)
- producto\_tabla.csv product names (can be joined with train/test on Producto\_ID)
- town\_state.csv town and state (can be joined with train/test on Agencia\_ID)

### Data fields

- Semana Week number (From Thursday to Wednesday)
- Agencia\_ID Sales Depot ID
- Canal\_ID Sales Channel ID
- Ruta SAK Route ID (Several routes = Sales Depot)
- Cliente\_ID Client ID
- NombreCliente Client name
- Producto\_ID Product ID
- NombreProducto Product Name
- Venta\_uni\_hoy Sales unit this week (integer)
- Venta\_hoy Sales this week (unit: pesos)
- Dev\_uni\_proxima Returns unit next week (integer)
- **Dev\_proxima** Returns next week (unit: pesos)
- Demanda\_uni\_equil Adjusted Demand (integer) (This is the target you will predict)

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