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Featured Prediction Competition

Instacart Market Basket Analysis

Which products will an Instacart consumer purchase again?

\$25,000

Prize Money



Instacart · 2,623 teams · 7 months ago

Overview

Data

Kernels

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Leaderboard

Rules

Team

Late Submission

✓ You have accepted the rules for this competition.

Competition Data

aisles.csv.zip

departments.csv.zip

order_products_prio...

order_products_trai...

orders.csv.zip

products.csv.zip

sample_submission.cs...

order_products_prior.csv.zip 157.06 MB

Download



```
kaggle competitions download -c instacart-market-basket-analysis
```



Data Description

The dataset for this competition is a relational set of files describing customers' orders over time. The goal of the competition is to predict which products will be in a user's next order. The dataset is anonymized and contains a sample of over 3 million grocery orders from more than 200,000 Instacart users. For each user, we provide between 4 and 100 of their orders, with the sequence of products purchased in each order. We also provide the week and hour of day the order was placed, and a relative measure of time between orders. For more information, see the [blog post](#) accompanying its public release.

File descriptions

Each entity (customer, product, order, aisle, etc.) has an associated unique id. Most of the files and variable names should be self-explanatory.

aisles.csv

```
aisle_id,aisle
1,prepared soups salads
2,specialty cheeses
3,energy granola bars
...
```

departments.csv

```
department_id,department
1,frozen
2,other
3,bakery
...
```

order_products_*.csv

These files specify which products were purchased in each order. `order_products_prior.csv` contains previous order contents for all customers. 'reordered' indicates that the customer has a previous order that contains the product. Note that some orders will have no reordered items. You may predict an explicit 'None' value for orders with no reordered items. See the evaluation page for full details.

```
order_id,product_id,add_to_cart_order,reordered
1,49302,1,1
1,11109,2,1
1,10246,3,0
...
```

orders.csv

This file tells to which set (prior, train, test) an order belongs. You are predicting reordered items only for the test set orders. 'order_dow' is the day of week.

```
order_id,user_id,eval_set,order_number,order_dow,order_hour_of_day,days_since_prior_order
2539329,1,prior,1,2,08,
2398795,1,prior,2,3,07,15.0
473747,1,prior,3,3,12,21.0
...
```

products.csv

```
product_id,product_name,aisle_id,department_id
1,Chocolate Sandwich Cookies,61,19
2,All-Seasons Salt,104,13
3,Robust Golden Unsweetened Oolong Tea,94,7
...
```

sample_submission.csv

```
order_id,products
17,39276
34,39276
137,39276
...
```