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Competitions Datasets Kernels

Discussion





Expedia Hotel Recommendations

Which hotel type will an Expedia customer book?

\$25,000 · 1,974 teams · a year ago

Overview

Data

Kernels

Discussion Leaderboard

Rules

Late Submission

Competition Data		Edit
destinations.csv.gz	train.csv.gz 511.16 MB	å Download
test.csv.gz		
train.csv.gz		

Data Description

Expedia has provided you logs of customer behavior. These include what customers searched for, how they interacted with search results (click/book), whether or not the search result was a travel package. The data in this competition is a random selection from Expedia and is not representative of the overall statistics.

Expedia is interested in predicting which hotel group a user is going to book. Expedia has in-house algorithms to form hotel clusters, where similar hotels for a search (based on historical price, customer star ratings, geographical locations relative to city center, etc) are grouped together. These hotel clusters serve as good identifiers to which types of hotels people are going to book, while avoiding outliers such as new hotels that don't have historical data.

Your goal of this competition is to predict the booking outcome (hotel cluster) for a user event, based on their search and other attributes associated with that user event.

The train and test datasets are split based on time: training data from 2013 and 2014, while test data are from 2015. The public/private leaderboard data are split base on time as well. Training data includes all the users in the logs, including both click events and booking events. Test data only includes booking events.

destinations.csv data consists of features extracted from hotel reviews text.

Note that some srch destination id's in the train/test files don't exist in the destinations.csv file. This is because some hotels are new and don't have enough features in the latent space. Your algorithm should be able to handle this missing information.

File descriptions

- train.csv the training set
- test.csv the test set
- destinations.csv hotel search latent attributes
- sample_submission.csv a sample submission file in the correct format

Data fields

train/test.csv

Column name	Description	Data type
date_time	Timestamp	string
site_name	ID of the Expedia point of sale (i.e. Expedia.com, Expedia.co.uk, Expedia.co.jp,)	int
posa_continent	ID of continent associated with site_name	int
user_location_co	u The ID of the country the customer is located	int
ntry		
user_location_re	gi The ID of the region the customer is located	int
on		
user_location_cit	ry The ID of the city the customer is located	int
orig_destination_d Physical distance between a hotel and a customer at the time of search. A null means do		
istance	the distance could not be calculated	
user_id	ID of user	int
is_mobile	1 when a user connected from a mobile device, 0 otherwise	tinyint
is_package 1 if the click/booking was generated as a part of a package (i.e. combined with a flight)		
	0 otherwise	
channel	ID of a marketing channel	int
srch_ci	Checkin date	string
srch_co	Checkout date	string
srch_adults_cnt	The number of adults specified in the hotel room	int
srch_children_cnt The number of (extra occupancy) children specified in the hotel room		int
srch_rm_cnt	The number of hotel rooms specified in the search	int
srch_destination d	_iID of the destination where the hotel search was performed	int
srch_destination_t Type of destination		
ype_id		
hotel_continent	Hotel continent	int
hotel_country	Hotel country	int
hotel_market	Hotel market	int
is_booking	1 if a booking, 0 if a click	tinyint
cnt	Numer of similar events in the context of the same user session	bigint
hotel_cluster	ID of a hotel cluster	int

ID of the destination where the hotel search was performed

latent description of search regions

Description

destinations.csv

srch_destination_id

Column name

d1-d149

Data type

int

double

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