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Rupak Chakraborty

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Completed • \$25,000 • 337 teams

Personalize Expedia Hotel Searches - ICDM 2013

Tue 3 Sep 2013 - Mon 4 Nov 2013 (2 years ago)

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Leaderboard

- commendo part of Opera Solutions
- 2. Owen
- 3. Jun Wang@UniGe
- 4. idle_speculation
- 5. Bing Xu & MLRush & BrickMover
- 6. J.A. Guerrero
- 7. AuroraXie
- 8. n_m & Pacific Rim
- 9. Gxav
- 10. Leustagos & Dmitry Efimov

Forum (87 topics)

submission
4 months ago

opaque offers 5 months ago

Data Usage beyond the contest 6 months ago

training/test set variable difference randomForest (R) 8 months ago

prop_location_score1 and

Competition Details » Get the Data » Make a submission

Data Files

File Name	Available Formats
data	.zip (414.44 mb)
basicPythonBenchmark	.zip (27.14 mb)
testOrderBenchmark	.zip (25.98 mb)
randomBenchmark	.zip (27.16 mb)

Sample code to create the benchmarks is available on Github.

- **train.csv** the training set
- **test.csv** the test set (this contains data for both the public leaderboard and the final evaluation, which is randomly split between the two sets)

Note: test.csv does not contain the following columns: position, click_bool, gross_bookings_usd, nor booking_bool

You can refer to www.expedia.com to better understand hotel search.

"Hotel" refers to hotels, apartments, B&Bs, hostels and other properties appearing on Expedia's websites. Room types are not distinguished and the data can be assumed to apply to the least expensive room type.

Most of the data are for searches that resulted in a purchase, but a small proportion are for searches not leading to a purchase.

Usage of outside data is prohibited and modeling should focus fully on the given data.

Column Name	Data Type	Description
srch_id	Integer	The ID of the search
date_time	Date/time	Date and time of the search
site_id	Integer	ID of the Expedia point of sale (i.e. Expedia.com, Expedia.co.uk, Expedia.co.jp,)
visitor_location_country_id	Integer	The ID of the country the customer is located
visitor_hist_starrating	Float	The mean star rating of hotels the customer has previously purchased; null signifies there is no purchase

prop_location_score2 9 months ago Winning algorithm 18 months ago

teams

players

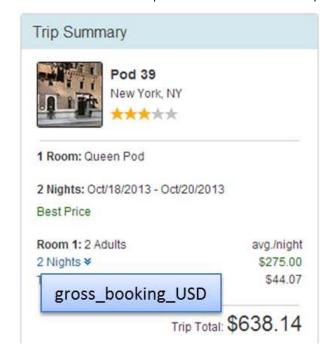
entries

visitor_hist_adr_usd	Float	history on the customer The mean price per night (in US\$) of the hotels the customer has previously purchased; null signifies there is no purchase history on the customer
prop_country_id	Integer	The ID of the country the hotel is located in
prop_id	Integer	The ID of the hotel
prop_starrating	Integer	The star rating of the hotel, from 1 to 5, in increments of 1. A 0 indicates the property has no stars, the star rating is not known or cannot be publicized.
prop_review_score	Float	The mean customer review score for the hotel on a scale out of 5, rounded to 0.5 increments. A 0 means there have been no reviews, null that the information is not available.
prop_brand_bool	Integer	+1 if the hotel is part of a major hotel chain; 0 if it is an independent hotel
prop_location_score1	Float	A (first) score outlining the desirability of a hotel's location
prop_location_score2	Float	A (second) score outlining the desirability of the hotel's location
prop_log_historical_price	Float	The logarithm of the mean price of the hotel over the last trading
position	Integer	period. A 0 will occur if the hotel was not sold in that period. Hotel position on Expedia's search results page. This is only provided for the training data, but not the test data.
price_usd	Float	Displayed price of the hotel for the given search. Note that different countries have different conventions regarding displaying taxes and fees and the value may be per night or for the whole stay
promotion_flag	Integer	+1 if the hotel had a sale price promotion specifically displayed
gross_booking_usd	Float	Total value of the transaction. This can differ from the price_usd due to taxes, fees, conventions on multiple day bookings and purchase of a room type other than the one shown
srch_destination_id	Integer	in the search ID of the destination where the hotel search was performed
srch_length_of_stay	Integer	Number of nights stay that was searched
srch_booking_window	Integer	Number of days in the future the hotel stay started from the search date
srch_adults_count	Integer	The number of adults specified in the hotel room

Data - Personalize Expedia Hotel Searches - ICDM 2013 Kaggle				
srch_children_count	Integer	The number of (extra occupancy) children specified in the hotel room		
srch_room_count	Integer	Number of hotel rooms specified in the search		
srch_saturday_night_bool	Boolean	+1 if the stay includes a Saturday night, starts from Thursday with a length of stay is less than or equal to 4 nights (i.e. weekend); otherwise 0		
srch_query_affinity_score	Float	The log of the probability a hotel will be clicked on in Internet searches (hence the values are negative) A null signifies there are no data (i.e. hotel did not register in any searches)		
orig_destination_distance	Float	Physical distance between the hotel and the customer at the time of search. A null means the distance could not be calculated.		
random_bool	Boolean	+1 when the displayed sort was random, 0 when the normal sort order was displayed		
comp1_rate	Integer	+1 if Expedia has a lower price than competitor 1 for the hotel; 0 if the same; -1 if Expedia's price is higher than competitor 1; null signifies there is no competitive data		
comp1_inv	Integer	+1 if competitor 1 does not have availability in the hotel; 0 if both Expedia and competitor 1 have availability; null signifies there is no competitive data		
comp1_rate_percent_diff	Float	The absolute percentage difference (if one exists) between Expedia and competitor 1's price (Expedia's price the denominator); null signifies there is no competitive data		
comp2_rate comp2_inv comp2_rate_percent_diff		(same, for competitor 2 through 8)		
comp3_rate				
comp3_inv				
comp3_rate_percent_diff				
comp4_rate comp4_inv				
comp4_rate_percent_diff				
comp5_rate				
comp5_inv				
comp5_rate_percent_diff				
comp6_rate				
comp6_inv comp6_rate_percent_diff				
compo_rate_percent_din				
comp7_inv				
comp7_rate_percent_diff				

comp8_rate comp8_inv comp8_rate_percent_diff





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