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(/contest/genpact-machine-learning-hackathon/lb)

Registered

Starts at	Sat Dec 15 2018 00:00:00 GMT+0530 (India Standard Time)
Closes on	Sun Dec 16 2018 23:59:00 GMT+0530 (India Standard Time)
Mode	Online
Fee	Free
# Participants	3412
Prizes	Apple MacBook, iPad & Apple Watch and Interview Opportunities with Genpact

Contest ends in 1days: 23hours: 14minutes: 7seconds

About Genpact Machine Learning Hackathon

Genpact and Analytics Vidhya presents the “Genpact Machine Learning Hackathon 2018”. A great opportunity to showcase your machine learning and analytical abilities and compete with the best data scientists out there.

Apple MacBook, Apple iPad & Apple Watch are up for grabs for the top 3 winners! Best performers also get a chance to get interviewed by Genpact for analytics and data science roles !!

So what are you waiting for? Its time to show your talent and skillset and leave your mark !!!

Who can apply?

If you love data, you should participate – statisticians, data scientists, analysts!

Prizes!

1st prize : Apple MacBook Pro
2nd prize: Apple iPad
3rd prize : Apple watch

In addition, the highest scorers get a chance to interview with Genpact for exciting and enriching roles!

About Genpact:

We are a global professional services firm that makes business transformation real. We drive digital-led innovation and digitally-enabled intelligent operations for our clients, guided by our experience running thousands of processes for hundreds of Global Fortune 500 companies. From New York to New Delhi and more than 20 countries in between, Genpact has the end-to-end expertise to connect every dot, reimagine every process, and reinvent companies’ ways of working. With a startup spirit and 80,000+ curious and courageous minds, we have the expertise to go deep with the world’s biggest brands—and we have fun doing it.

Now, we’re calling all you rule-breakers and risk-takers who see the world differently, and are bold enough to reinvent it. Transformation happens here.

Dream in Digital. Dare in Reality.

Great Place to work:

Feedback

Registration Fee

Free

Problem Statement

Your client is a meal delivery company which operates in multiple cities. They have various fulfillment centers in these cities for dispatching meal orders to their customers. The client wants you to help these centers with demand forecasting for upcoming weeks so that these centers will plan the stock of raw materials accordingly.

The replenishment of majority of raw materials is done on weekly basis and since the raw material is perishable, the procurement planning is of utmost importance. Secondly, staffing of the centers is also one area wherein accurate demand forecasts are really helpful. Given the following information, the task is to predict the demand for the next 10 weeks (Weeks: 146-155) for the center-meal combinations in the test set:

- Historical data of demand for a product-center combination (Weeks: 1 to 145)
- Product(Meal) features such as category, sub-category, current price and discount
- Information for fulfillment center like center area, city information etc.

Data Dictionary

1. **Weekly Demand data (train.csv):** Contains the historical demand data for all centers, test.csv contains all the following features except the target variable

Variable	Definition
id	Unique ID
week	Week No
center_id	Unique ID for fulfillment center
meal_id	Unique ID for Meal
checkout_price	Final price including discount, taxes & delivery charges
base_price	Base price of the meal
emailer_for_promotion	Emailer sent for promotion of meal
homepage_featured	Meal featured at homepage
num_orders	(Target) Orders Count

2. **fulfilment_center_info.csv:** Contains information for each fulfilment center

Variable	Definition

center_id	Unique ID for fulfillment center
city_code	Unique code for city
region_code	Unique code for region
center_type	Anonymized center type
op_area	Area of operation (in km^2)

3. **meal_info.csv:** Contains information for each meal being served

Variable	Definition
meal_id	Unique ID for the meal
category	Type of meal (beverages/snacks/soups….)
cuisine	Meal cuisine (Indian/Italian/…)

Evaluation Metric

The evaluation metric for this competition is ***100*RMSLE*** where RMSLE is Root of Mean Squared Logarithmic Error (https://scikit-learn.org/stable/modules/generated/sklearn.metrics.mean_squared_log_error.html) across all entries in the test set.

Public and Private Split

Test data is further randomly divided into Public (30%) and Private (70%) data.

- Your initial responses will be checked and scored on the Public data.
- The final rankings would be based on your private score which will be published once the competition is over.

Solution Checker

1. Adding comments is mandatory for the use of solution checker.
2. Comments will help you to refer to a particular solution at a later point in time.

Hackathon Rules

1. Setting final submission is mandatory. Without a final submission, your entry will not be considered.
2. You are only allowed to make 10 submissions a day
3. Use of external datasets is not allowed
4. Code file is mandatory while sending final submission. For GUI based tools, please upload a zip file of snapshots of steps taken by you, else upload code file.
5. The code file uploaded should be pertaining to your final submission.
6. Use of id variable in any way is not allowed as part of the model/solution

How to Make Submission

How to Set Final Submission

How to set a Final Submission on DataHack?

Data

- Test File (/contest/genpact-machine-learning-hackathon/download/test-file)
- Train File (/contest/genpact-machine-learning-hackathon/download/train-file)
- Sample Submissions (/contest/genpact-machine-learning-hackathon/download/sample-submission)

Solution Checker

Code File

Choose File No file chosen

Solution File*
(.csv only)

Choose File No file chosen

Solution Description
(max : 180 chars)*

Solution Description (for your interest)

Do you want to show your code on leaderboard?*

Yes ○ No ○

Add Solution

You have made **0** submissions out of **10 allowed submissions for the day.**

Feedback

Join Slack Live Chat

(HTTPS://TWITTER.COM/SHARE?
UTM_SOURCE=TWITTER_SHARE&UTM_MEDIUM=DH_SOCIAL&URL=HTTP://DATAHACK.ANALYTICSV
IDHYA.COM/CONTEST/GENPACT-
MACHINE-LEARNING-
HACKATHON/&TEXT=HEY!
I AM PARTICIPATING IN
AN EXCITING
PROBLEM BY
@ANALYTICSVIDHYA
GENPACT MACHINE
LEARNING
HACKATHON
COMPETE AND LEARN.
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