Common Attributes

The following attributes are present in both the files (**training_dataset.csv** and **test_dataset.csv**).

Contest Logins

The attributes in this section have to do with the number of contests that a user actually logged in to HackerRank to compete in. Note that this is *not* the total number of contests the user signed up for.

`contest_login_count`	Total number of contests the user logged in for since joining HackerRank.
`contest_login_count_1_days`	Total number of contests the user competed in within the last one day.
`contest_login_count_7_days`	Total number of contests the user competed in within the last 7 days.
`contest_login_count_30_days`	Total number of contests the user competed in within the last 30 days.
`contest_login_count_365_days`	Total number of contests the user competed in within the last 365 days.

Contest Participation

The attributes in this section have to do with the number of contests that a user *signed up for*. Users who signed up for a contest did not necessarily compete in it.

`contest_participation_count`	Total number of contests the user signed up for since joining HackerRank.
`contest_participation_count_1_days`	Total number of contests the user signed up for in the last one day.
`contest_participation_count_7_days`	Total number of contests the user signed up for in the last 7 days.
`contest_participation_count_30_days`	Total number of contests the user signed up for in the last 30 days.
`contest_participation_count_365_days`	Total number of contests the user signed up for in the last 365 days.

Account Information

This section contains miscellaneous attributes associated with a user's account and their participation in the HackerRank community.

`hacker_created_at`	Epoch of when the user signed up for the HackerRank.
`forum_comment_count`	Total number of *replies* made by the user in the challenge discussion forum which are *not* the first level comments. A first level comment is considered to be a question asked by a user, and the non-first-level comments associated with it are replies to the question.
`forum_count`	Total number of all comments made by the user in the challenge discussion forum (this includes any first or non-first level comment).
`forum_expert_count`	Total number of *expert reply* comments made by the user in the challenge discussion forum, meaning replies to requests from commenters requesting help from the user as a challenge expert.
`forum_question_count`	Total number of first level comments made by the user in the challenge discussion forum, meaning general questions asked by the user.
`hacker_confirmation`	A *boolean* value denoting whether or not the user confirmed their primary email. If the email was confirmed, it's true; otherwise, it's false.
`user_id`	The unique ID of the user.
`hacker_timezone`	The timezone of the user given in number of seconds offset with GMT. The timezone have been anonymized to a multiples of one hour (3600 seconds).
`ipn_count`	Total number of in-product notifications the user received since joining HackerRank.
`ipn_count_1_days`	Total number of in-product notifications the user received in the last one day.
`ipn_count_7_days`	Total number of in-product notifications the user received in the last 7 days.
`ipn_count_30_days`	Total number of in-product notifications the user received in the last 30 days.
`ipn_count_365_days`	Total number of in-product notifications the user received in the last 365 days.
`ipn_read`	The total number of in-product notifications the user actually read since joining HackerRank.
`ipn_read_1_days`	Total number of in-product notifications the user actually read in the last one day.
`ipn_read_7_days`	Total number of in-product notification the user actually read in the last 7 days.
`ipn_read_30_days`	Total number of in-product notification the user actually read in the last 30 days.

`ipn_read_365_days`	Total number of in-product notifications the user actually read in the last 365 days.

Email Attributes

This section contains attributes associated with emails sent to a user.

`last_online`	The epoch of when the user was last online before this email was sent. This is calculated based on the most common activities of the user on the website.
`mail_category`	The email category.
`mail_id`	The identifier of the email sent.
`mail_type`	The type of email sent to the user.
`sent_time`	The epoch of when the email was sent.

Submitted Code

This section contains attributes associated with the frequency with which a user submitted code on HackerRank.

`submission_count`	The user's total number of submissions, including contests and master domains (i.e., Algorithms, Tutorials, etc.), since joining HackerRank.
`submission_count_1_days`	The user's total number of submissions, including contests and master domains (i.e., Algorithms, Tutorials, etc.), in the last 1 day.
`submission_count_7_days`	The user's total number of submissions, including contests and master domains (i.e., Algorithms, Tutorials, etc.), in the last 7 days.
`submission_count_30_days`	The user's total number of submissions, including contests and master domains (i.e., Algorithms, Tutorials, etc.), in the last 30 days.
`submission_count_365_days`	The user's total number of submissions, including contests and master domains (i.e., Algorithms, Tutorials, etc.), in the last 365 days.
`submission_count_contest`	The user's total number of *contest* submissions since joining HackerRank.
`submission_count_contest_1_days`	The user's total number of *contest* submissions in the last 1 day.

`submission_count_contest_7_days`	The user's total number of *contest* submissions in the last 7 days.
`submission_count_contest_30_days`	The user's total number of *contest* submissions in the last 30 days.
`submission_count_contest_365_days`	The user's total number of *contest* submissions in the last 365 days.
`submission_count_master`	The user's total number of *master domain* (i.e., Algorithms, Tutorials, etc.) submissions since joining HackerRank.
`submission_count_master_1_days`	The user's total number of *master domain* (i.e., Algorithms, Tutorials, etc.) submissions in the last 1 day.
`submission_count_master_7_days`	The user's total number of *master domain* (i.e., Algorithms, Tutorials, etc.) submissions in the last 7 days.
`submission_count_master_30_days`	The user's total number of *master domain* (i.e., Algorithms, Tutorials, etc.) submissions in the last 30 days.
`submission_count_master_365_days`	The user's total number of *master domain* (i.e., Algorithms, Tutorials, etc.) submissions in the last 365 days.

Attributes Unique to **training_dataset.csv**

The following attributes only appear in the **training_dataset.csv** file (not in the **test_dataset.csv** file).

`click_time`	The epoch of when the first click happened on an email. This does not mean that the unsubscribe link (if any) was clicked.
`clicked`	A *boolean* value denoting whether or not the email was clicked. If the user clicked the email, then the value is true; otherwise, it's false.
`open_time`	The epoch of when the user opened the email.
`opened`	A *boolean* value denoting whether or not the user opened the email. If the user opened the email, then the value is true; otherwise, it's false.
`unsubscribe_time`	The epoch of when the the email's unsubscribe link (if any) was clicked for the first time.
`unsubscribed`	A boolean value denoting whether or not the user clicked the unsubscribe link (if any) in the email. If the user did click the unsubscribe link, then the value is true; otherwise, it's false.