User Interface documentation - Elastic ML Compute

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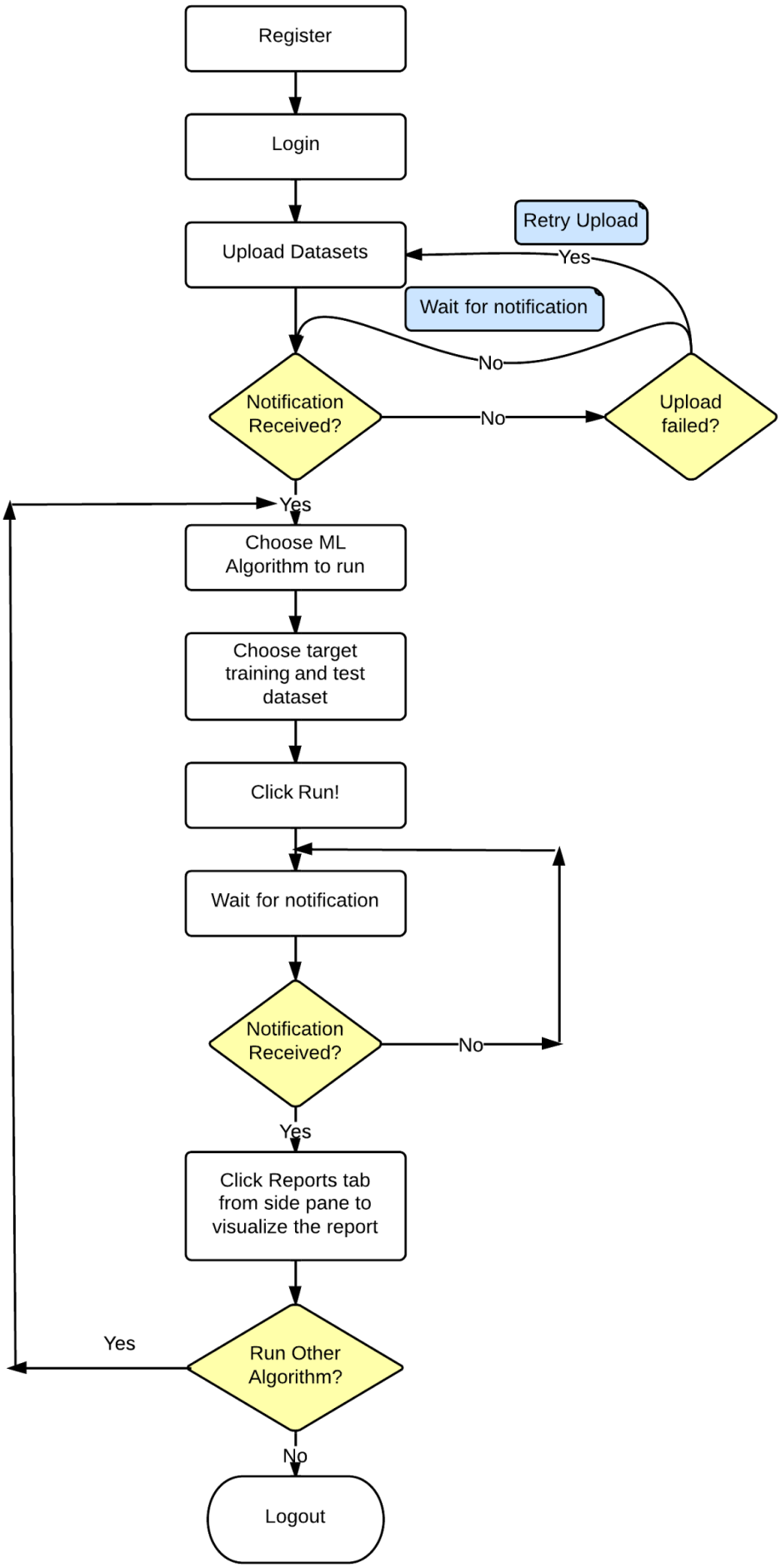
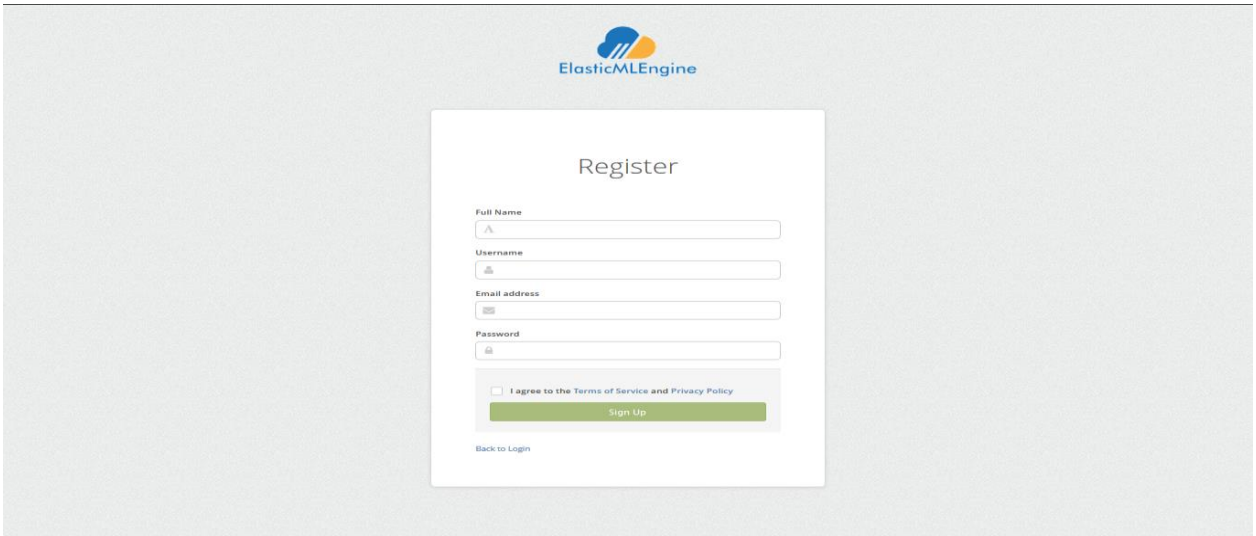
FlowChart

This document provides a summary of the actions that can be performed in the user interface. The next page shows a flowchart describing a flow of actions that the user can perform in the user interface.


Register
Login
Upload Datasets
Retry Upload
Yes
Wait for notification
No
Notification Received?
No
Upload failed?
Yes
Choose ML Algorithm to run
Choose target training and test dataset
Click Run!
Wait for notification
Notification Received?
No
Yes
Click Reports tab from side pane to visualize the report
Yes
Run Other Algorithm?
No
Logout

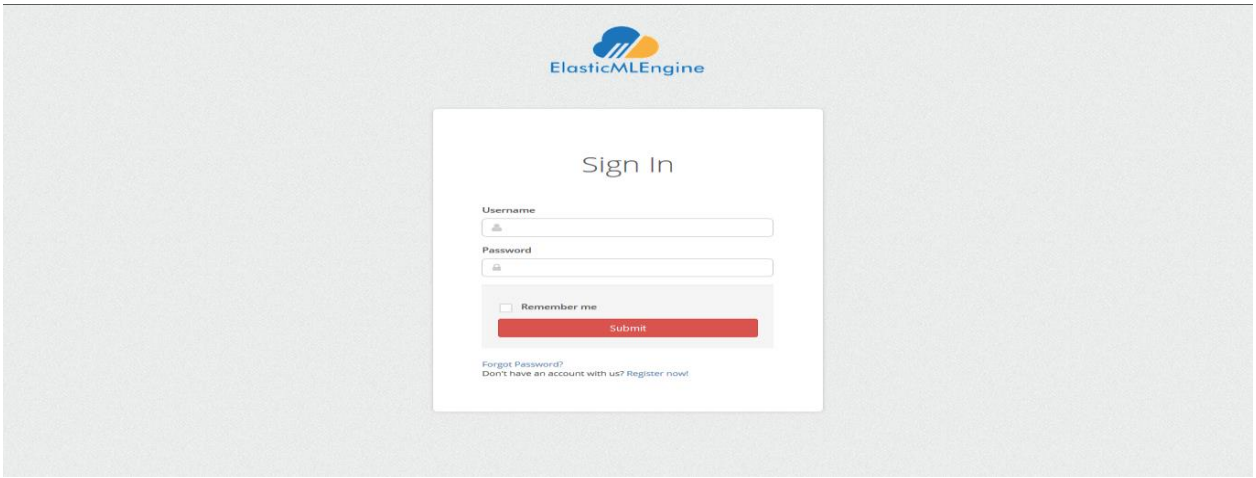
User Registration

The screen in the following snapshot shows the user registration page. Upon registration, private space is created for user in the HDFS where user can upload personal datasets for running supported Machine Learning algorithms later.



User Login

Once the user is registered with our system, he can login with his username and password to access the system. User can also choose to remember the credentials for convenience.

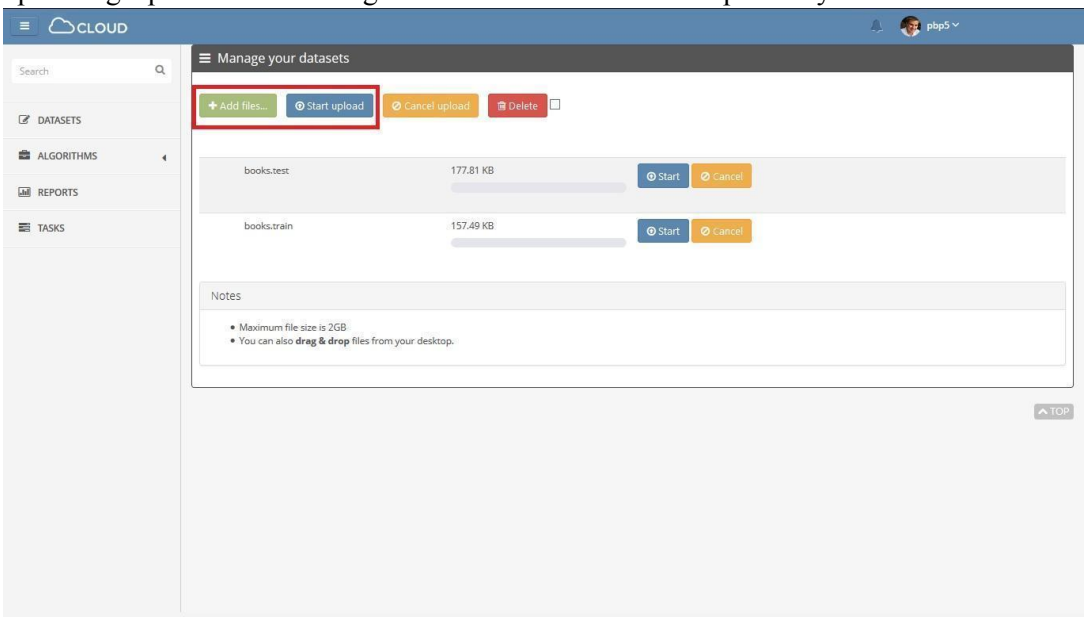


Dataset Upload

(i) User can upload the files on the local file system by following directions mentioned below:

- ➢ Click the ‘DATASETS’ tab from side pane.
- ➢ Click the ‘Add files’ button.
- ➢ Browse the file system to choose the file to upload.

- Click the ‘Start Upload’ button to begin uploading of files. Alternatively you may choose to upload or cancel uploading a particular file using ‘Start’ or ‘Cancel’ button respectively.



(ii) User can upload the files from Amazon S3 server using following directions:

- Create a file with ‘.s3’ extension
- Put s3 URLs of files that you want to upload in a file created in previous step.
- Upload this file using directions mentioned in previous section to upload files referenced by s3 URLs to HDFS server.

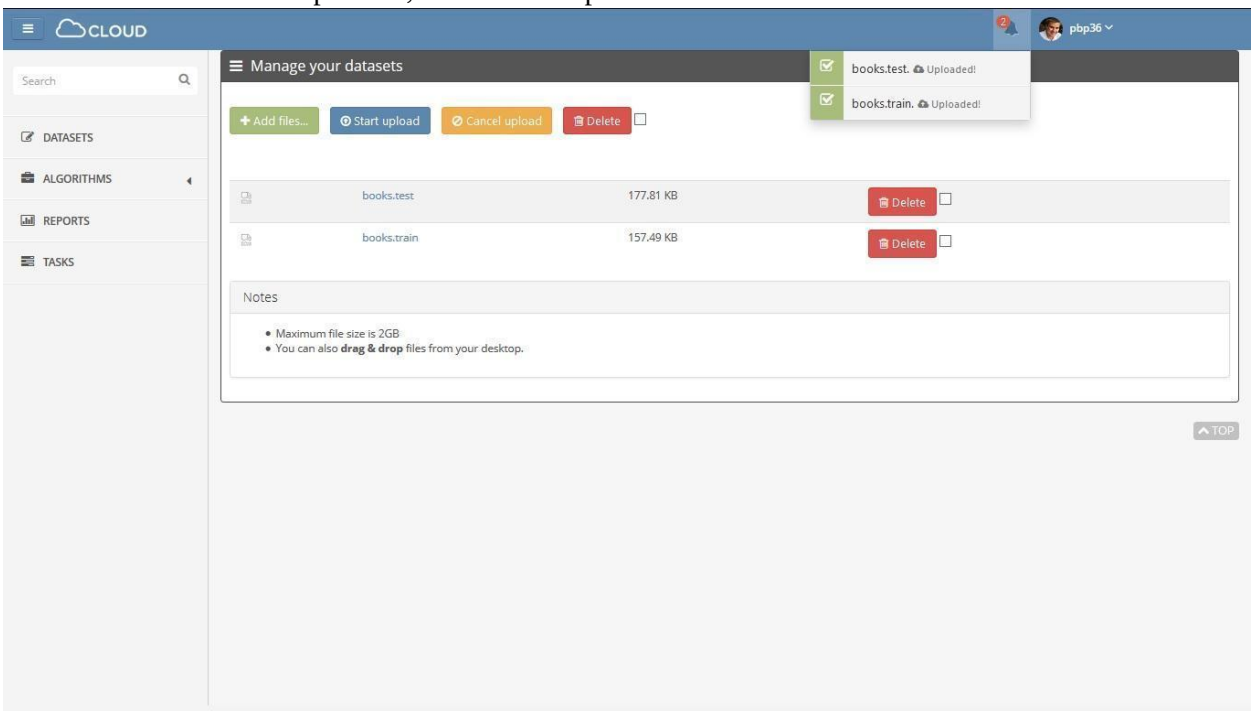
(iii) User can upload the files referenced using http URLs using following directions:

- Create a file with ‘.http’ extension
- Put http URLs of files that you want to upload in a file created in previous step.
- Upload this file using directions mentioned in previous section to upload files referenced by http URLs to HDFS server.

Notification System

Whenever a user performed action reaches completion, he is notified of the same using a “Facebook styled” notification system. After he clicks on the top right bell icon with notifications, he can see a list of notifications. On click, the red popup goes away until new notifications are generated

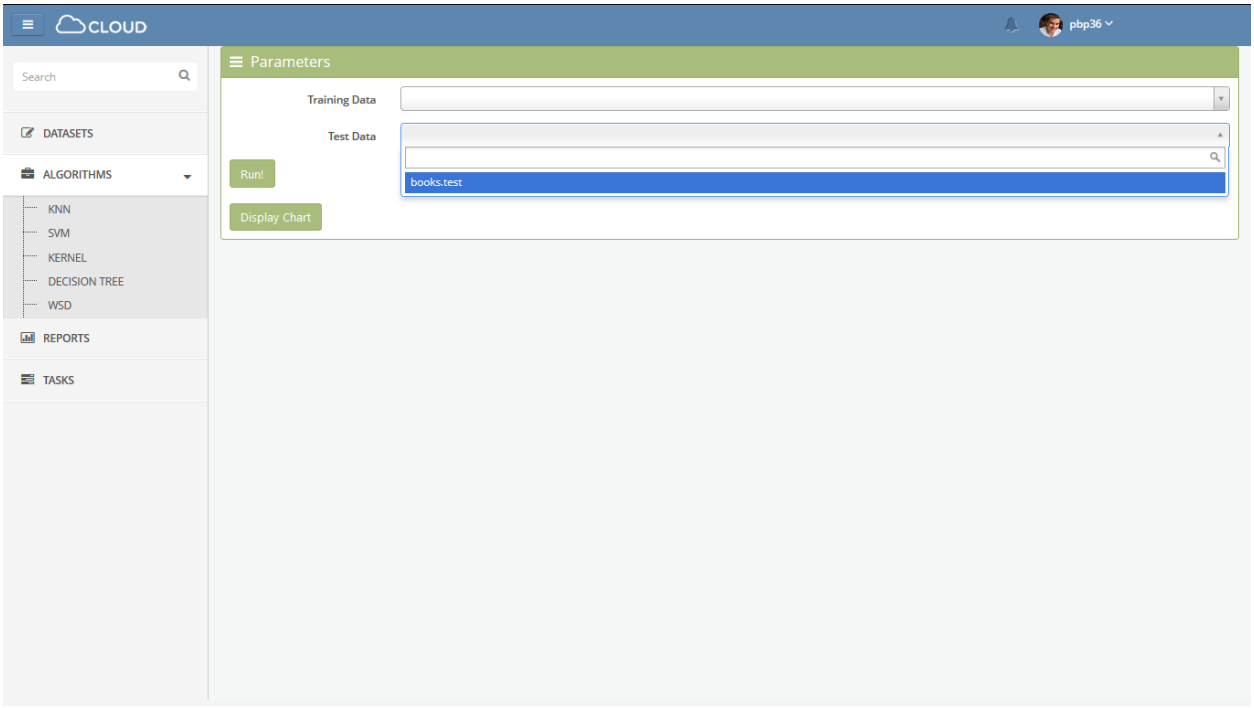
After the files have been uploaded, status of the upload is shown on the screen and the user is **notified** of the same.



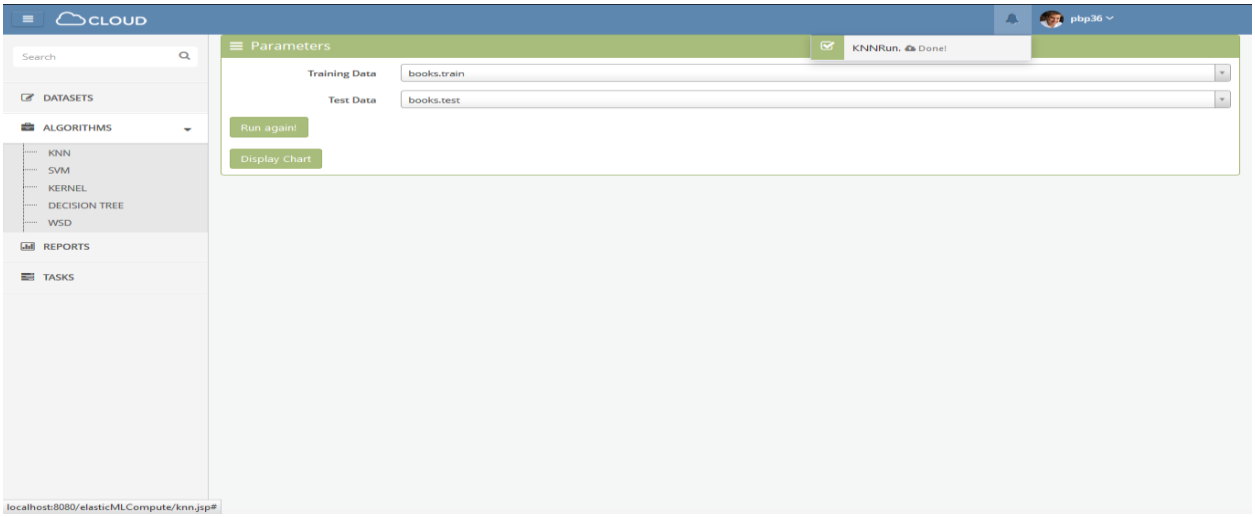
Algorithm Execution

After the user has uploaded required datasets on the server he can choose to run any Machine Learning algorithm on the uploaded datasets by following directions mentioned below.

- ➢ Click the ‘ALGORITHMS’ tab from side pane.
- ➢ Select target algorithm from dropdown.
- ➢ Choose training data from previously uploaded datasets.
- ➢ Choose test data from previously uploaded datasets.
- ➢ Click ‘Run’ to start the execution of algorithm.

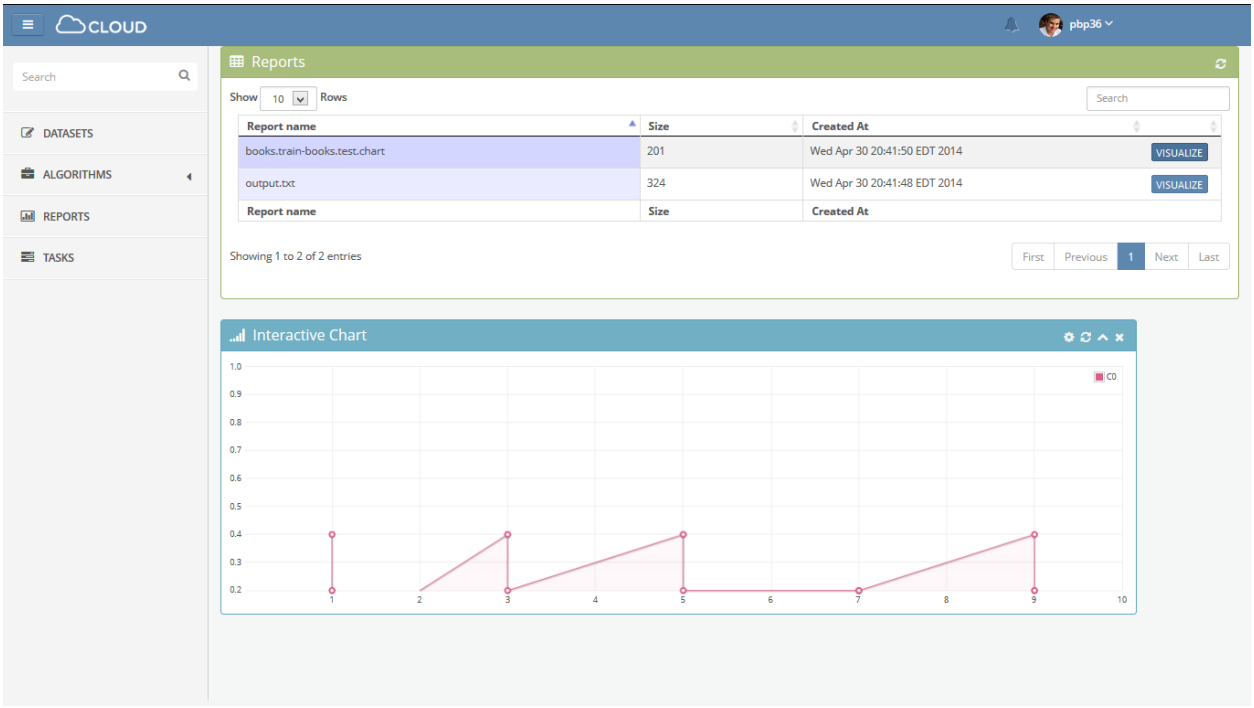


Upon completion of algorithm execution user is notified of the same and the label of ‘Run’ button changes from ‘Running’ to ‘Run Again’.



Reports

After the algorithm has been executed successfully to completion, report for the corresponding run is made available to user through ‘REPORTS’ tab. User can view the report using ‘VISUALIZE’ button.



Tasks

User can access ‘Activity Log’ using ‘TASKS’ tab. It shows the statuses of various activities carried out on the user account so far.