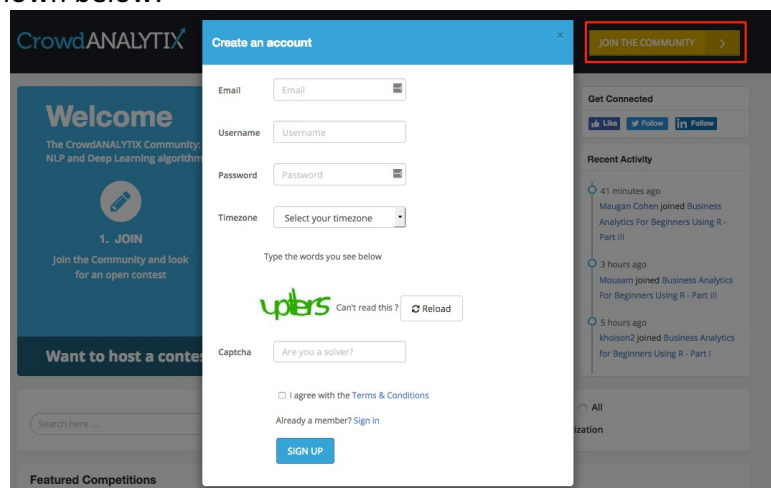# CrowdANALYTIX Data Science Community Platform

CrowdANALYTIX (CAX) is an advanced analytics platform that enables data-driven decisions using the wisdom of a global community of data scientists, statisticians and experts on advanced analytics/machine learning.

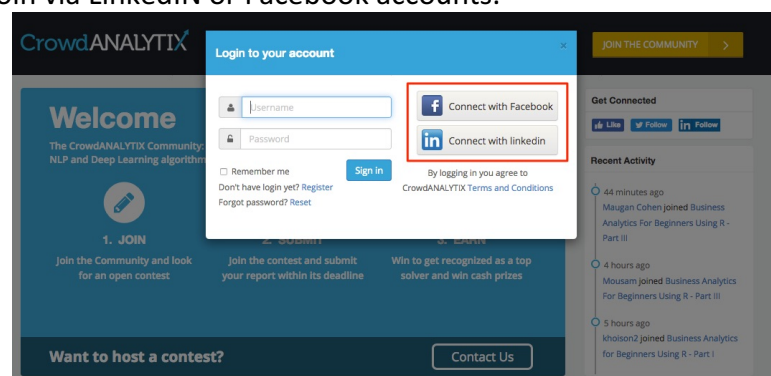https://www.crowdanalytix.com/community

Predictive modeling contest are defined as problems where processed or raw data is given to the community to build models to predict an outcome variable based on the business objective. Solvers are encouraged to build different varieties / multiple iterations of models or features and to submit their predicted output for the test data, which is then evaluated based on an evaluation metric like RMSE etc. The scores & ranking are then reflected on the public/private leaderboard.

Join Platform

Before joining any public contest - users' needs to join the CAX community. You can create an account as shown below:

Users can also join via LinkedIN or Facebook accounts.

Things to note:
- Email will be sent to user for confirmation, please enter valid email ID
- Username is your CAX user id - please make sure it's unique and easy to remember

New Solvers

- Once users have joined the platform, solvers can login using their CAX username and password and join any public contest.
- All public contests can be joined by anyone unless explicitly specified in the contest rules.
    - Please check individual contest rules / terms & conditions before joining the contest. All users have to agree to the terms and conditions before joining the contest.
- Private or Restricted contests are only available to join by request.
- Data download, making submissions to contest, forum comments etc. are only available to solvers once they have joined the contest.

Join Contest

Things to note:
- You can either join contest as Individual or as Team (Create Your Own Team).
    - Please note contest join status once joined cannot be changed for the same username.
- Individual:
    - Solvers can join contest as an individual using CAX username
    - Please accept the contest "Terms and Conditions" before joining the contest.
    - Please note if you join contest as an individual - you cannot join same contest as part of team using same username.
- Teams:
    - Each team has a max. limit of users set by client or CAX.
    - You can join the contest as Team Lead ie. Create Your Own Team and invite other CAX username to be part of team.
        - Invited users will get a notification to join the contest as part of team. User can either accept or decline the request.
        - Please send requests to users most likely to be part of your team or ask users before inviting user to be part of team.
        - Team Lead can manage team from team page.
    - Once you join contest as part of team. You cannot participate same contest as an individual.
    - Only Team Lead is allowed to make submissions to leaderboard.
    - Team members can share data and code via Team Page.
- Only one account per participant per contest is allowed to join contest.
- Privately sharing code or data outside of teams is not permitted.
- For urgent queries regarding it - please contact contest admin.

Data

Once contest is joined, all tabs are visible to the solvers to view.

HOME	INFORMATION	DATA	ACTIVITY	LEADERBOARD	MEMBERS	TASKS	FORUM

Things to note - CrowdANALYTIX Platform (New Solvers)

Contest data can be downloaded from the DATA tab:
- Files are in csv format
- Data is divided into train and test sets
  - Train model using training data
  - Test data predictions to be submitted for evaluation via platform "Make a Submission"
- Submission format, Data dictionary are also available to download for data understanding.

Make a Submission

Solvers will make predictions for the test dataset based on the given contest objective. The submission format file [csv] is provided for each modeling contest and it is mandatory to submit predictions only via the given submission format.

The system will give following error if submitted file format is invalid:
- **Change in order of submission ID**
- **Mismatch in number of columns**
- **Mismatch in number of rows**
- **Error in name of columns**

Submission Limits
- You may submit a maximum of 5 or N entries per day.
- Invalid entries will also be counted towards submission limit. Please make sure the submission file is in correct format before submitting predictions.

All past submissions made by the solver along with filenames, date of submission, score etc. are shown to solvers for review on the "Make a Submission" page or via Task tab link.

Leaderboard (LB)

LB shows the evaluation metric score for the test dataset (depending on the evaluation metric mentioned in the contest description) for the submitted predictions. LB is either sorted in ascending or descending order based on the evaluation metric.

Please check the evaluation metric used in the contest before making your submissions.

Important to note:
- Test dataset is further divided into a public test set and a private test set. In general, the ratio is approx. 40% in public test and 60% in private test.
- LB scoring is also reflected based on the above. There is a public LB score and a private LB score for each submission made by the solver.
- Public LB score is immediately visible to the solver and public LB rank is shown.
- Private LB score is only fully visible to participants once the contest Task 1 has ended.
- Conditional Winner selection is based on private LB Score.

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Sample Screenshot of previous modeling LB (Private LB is only visible after contest Task 1 has ended)

Task Tab

- Task tab shows all the main tasks for the contest along with their start and end dates. Please check Task tab for details of tasks and task submission pages.
- Please check all contest dates are based on GMT - plan your submissions accordingly to not miss the deadlines.
- Sample Screenshot:

Forums

- Forums are available to all contest participants to ask queries about the contest, data etc.
- Please don't share your modelling approach or model codes via forums. Sharing of codes is not permitted.

For any additional queries please contact contest admin via platform messaging or for urgent queries contact CAX via connect@crowdanalytix.com

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