Dear competitor to the Tracfone TracHack Hackthon,

thank you for participating in the TracHack competition!

In this email you will find your instructions for connecting to the Trachack infrastructure and for submitting your results.

Your Team is identified as team22. Each team receives unique access credentials. Access credentials are the same for all members of the same team.

Trachack uses an AWS hosted Jupyter server for competitors to develop and run code. In order to connect to the Jupyter server, please follow instructions below:

# One time setup:

You will need to have AWS CLI utilities installed in your computer. Please follow these instructions to install them on your computer:

https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html

You will also need to install the Session Manager Plugin for AWS CLI. Please follow these instructions:

https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager-working-with-install-plugin.html

Create a directory called .aws in your home directory. Create a file called config inside the .aws directory.

Edit the config file and paste in:

[default]

region = us-east-1

output = json

(Or use aws configure and follow prompts)

Once you have everything installed, please issue the following commands, every time you want to connect to the server:

**一旦你安装好一切，请发出以下命令，每次你想连接到服务器时都要这样做。**

On Mac or Linux terminals:

export AWS\_ACCESS\_KEY\_ID=AKIA3X3UYX5I5XNJPQQ2

export AWS\_SECRET\_ACCESS\_KEY=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

aws ssm start-session --target i-034561db2a316a7f6 --document-name AWS-StartPortForwardingSession --parameters '{"portNumber":["9443"], "localPortNumber":["9443"]}'

On Windows CMD:

1.

set AWS\_ACCESS\_KEY\_ID=AKIA3X3UYX5I5XNJPQQ2

2.

set AWS\_SECRET\_ACCESS\_KEY=FjKpIa6ZZ9lj9mB7BZCKctXtajS14UhlgCoo6bui

3.

aws ssm start-session --target i-034561db2a316a7f6 --document-name AWS-StartPortForwardingSession --parameters "portNumber=9443, localPortNumber=9443"

**set AWS\_ACCESS\_KEY\_ID=AKIA3X3UYX5I7A6FNBFJ**

**set AWS\_SECRET\_ACCESS\_KEY=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**

**aws ssm start-session --target i-034561db2a316a7f6 --document-name AWS-StartPortForwardingSession --parameters "portNumber=9443, localPortNumber=9443"**

Once the port forwarding is established, please point your browser to https://localhost:9443

You will have to accept the self-signed certificate

- On Firefox, click on "Advanced", then "Accept Certificate"

- On Google Chrome, type thisisunsafe on the Chrome error page

- On Safari, click "Show Details", then "visit this website"

- On Edge, click on "Advanced", then click on "Proceed"

**Login in with username: team22 - password: wahyae6A**

By default, Jupyter loads the new "Lab" interface. If you prefer the old "Tree" interface, point your browser to: https://localhost:9443/user/team22/tree?

Please test connectivity at your earliest convenience, and report to us any problem you may encounter.

**Once data will be released, a Jupyter notebook named 'How to load data.ipynb' will appear in your Jupyter root directory.**

Please do not share connection credentials with anybody outside your team. Please do not post code or credentials or data on public websites. Amazon scans, on a daily basis, public websites (stackoverflow, quora, github, etc.).

Amazon will immediately contact us if they find user credentials or data on public websites.

# Submissions

There are two types of submissions.

    1. The nightly submission of predictions from the team, if they choose to. Teams have the opportunity to submit daily results, for us to compute a daily leader board. It is not mandatory, but it will help you gauge where your code is with respect to other teams.

    2. Code submission; code is reviewed for readability and reproducibility as we finalize the top 3 winning teams.

In both cases, submissions must be made via the team dedicated environment. Please make sure you verify your environment is working properly.

 有两种类型的提交。

1. 团队每晚提交的预测，如果他们选择的话。团队有机会提交每日结果，以便我们计算出每日排行榜。这不是强制性的，但它将帮助你衡量你的代码与其他团队的关系。

2. 代码提交；在我们最终确定前三名获胜团队时，将对代码的可读性和可重复性进行审查。

在这两种情况下，必须通过团队专用环境提交。请确保你验证你的环境是否正常。

# Accessing the Compute Environment

Once all the team members have successfully signed the NDA, each team will be granted access to a Jupyter server to develop and test code. Each team will be assigned unique credentials to be shared among the team members.

Each team member will receive an email with credentials and instructions to connect to the Jupyter server.

Please do not share connection credentials with anybody outside your team. Please do not post code, credentials or data on public websites. Amazon scans, on a daily basis, public websites (stackoverflow, quora, github, etc.) Amazon will immediately contact us if they find user credentials or data on public websites.

# Daily Prediction Submission

Each team is invited to make a daily submission of their predictions using the evaluation dataset. Every night an automated job will take the latest submission (if present), run the scoring and populate the leader board on the TracHack website the next morning.

A team can make a submission for the day by placing their predictions as a CSV file named with the submission date in the YYYY-MM-DD format inside the submission folder within their environment. For example the file submission/2022-04-01.csv will contain the team’s submission from 1st of April 2022. While teams are not required to submit every day, regular submissions are very useful to get feedback on how the teams are progressing.

TracHack 22.2: For TracHack22.2 the CSV must contain comma separated values with header customer\_id and ebb\_eligible flag. It should consist of one single entry for each customer from the evaluation dataset and respective predicted ‘ebb-eligible’ flag with either 1 (ebb eligible) or 0 (not ebb eligible).

每个团队被邀请每天使用评估数据集提交他们的预测结果。每天晚上，一个自动化的工作将采取最新的提交（如果有的话），运行评分，并在第二天早上在TracHack网站上填入排行榜。

一个团队可以将他们的预测以CSV文件的形式提交，文件名为YYY-MM-DD格式，放在他们环境中的提交文件夹里，以此来提交当天的预测。例如，文件submission/2022-04-01.csv将包含该团队从2022年4月1日开始提交的预测。虽然不要求团队每天都提交，但定期提交对于获得团队进展的反馈非常有用。

customer\_id,ebb\_eligible

f51707b140d8fa3b0d6859c49112f60357131de7,1

ac774c4943118044e3ddbee2b36b141afeb1f7a0,0

e0c8a12f5daed65cfe2d433301fcbb629327368f,0

6675321499dd530d3b4390e271310503884e36f9,1

704f7c7d12f01bd6c611d04e9a1cbbd4440ebb87,1

e0de51552bc30f3922a32bc7b3fedb88e817f8cf,0

2d41975b9822abe3da1e96701fa3fbb8c64985e8,1

48e23686428c704d10fe7d937f218b2f40055bd8,0

2249549952a441a7c54fac4819f322fbe39356c5,0

c7527cd7fd2c98f1973e60d62ce4c1eb67ddd3ef,1

etc.

NOTE: You must make a prediction for ALL line\_ids in the eval dataset for the submission.

Final Code Submission

When it is time to get ready for the final submission for TracHack, there are a couple of things you should do:

1. Submit your predictions as a submission CSV file. Teams will produce a submission with filename: **yyyy-mm-dd-final.csv** to be saved in the submission folder.

以提交CSV文件的形式提交你的预测结果。团队将产生一个文件名为：yyyy-mm-dd-final.csv的提交文件，保存在提交文件夹中。

2. Consolidate all of your code (data prep, feature selection, model training and prediction, etc) into a single jupyter notebook and call it **mlcode.ipynb**. Save this inside the code folder. It is VERY important that your code reproduces the submission. We will use that notebook to reproduce your submission predictions. If these do not match, then your submission will not be considered valid.

 将你所有的代码（数据准备、特征选择、模型训练和预测等）合并到一个jupyter笔记本中，并称之为mlcode.ipynb。将其保存在代码文件夹中。非常重要的是，你的代码要再现提交的内容。我们将使用该笔记本来重现你的提交预测。如果这些不匹配，那么你的提交将不被视为有效。

Final Submission for Trachack 22.2 is due on April 17th 11:59 PM, EDT (April 18th 01:59 PM, New South Wales DST Time, UTC+10, or, April 18th 05:59 AM, Spain Time, Central Europe DST, UTC+2)

Good luck on your Trachack challenge!,

The Tracfone Trachack Team.