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1. CASE



Business Problem:

Mr. Bryan who is a CRO (Chief Risk Officer) of **ABC corporation**, a top US based NBFC (Non Banking Financial institution) is concerned about increasing losses in its newly acquired accounts for unsecured loan portfolio. He wants to identify characteristics and factors that are indicative of customers who are likely to charge-off/default on loans. He is concerned that the current model and strategy in place is inadequate to filter good and bad accounts.

Thus, He asks his modeling head to develop a credit scoring model that examine the credit worthiness of its newly acquired customers.

Goal:

As a modeling head of **ABC corporation**, your goal is to develop a robust modeling solution that can help Mr. Bryan predict the likelihood that the loan would be paid-off in full or it will be charged off/default.

2. DATA OVERVIEW



Data Accessibility:

Data can be accessed through personal laptops and is stored in the following location http://bit.do/Orion ML

Dataset Details:

- Unique Identifier ID
- Total 3 samples will be used throughout this phase
 - Train Dataset available for model development (Release date 8th April , 2019)
 - Test1 First test sample to be used for scoring and evaluation (Release date 22nd April , 2019)
 - Test2 Final test sample to used for scoring and evaluation (Release date 24th May, 2019)
- · Train dataset details:
 - # Observations 152,514
 - # Events 27,871
 - # Fields 49
- Data dictionary is also available in the data download link (http://bit.do/Orion ML)
- Participants are encouraged to merge any third party data for modeling/analytics
- Template submission form would be shared along with the test data on 22nd April, 2019

3. EVALUATION CRITERIA



There are 3 major criteria for evaluation:



Accuracv

- Root Mean Square Error (RMSE) will be used as an accuracy evaluation criteria
- **Least RMSE** model across test samples will be ranked higher



Innovation

- Modeling approach and methodology
- Feature Engineering

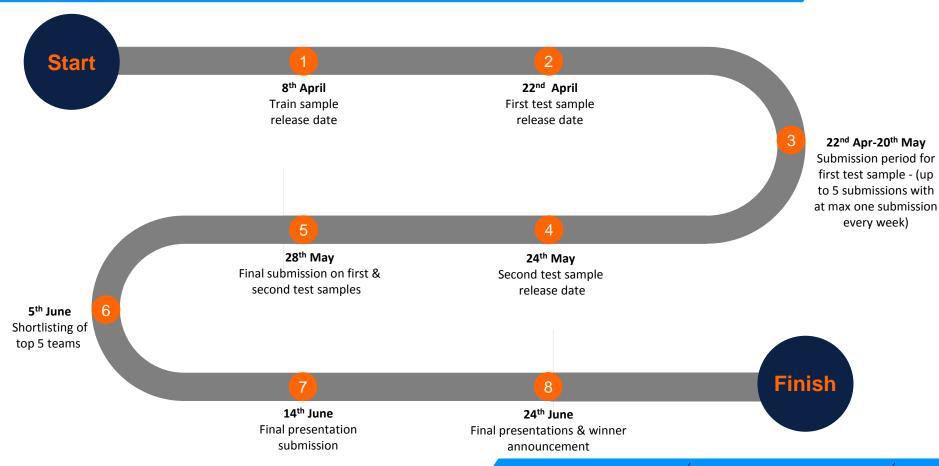


Final Model Interpretability & Quality of final recommendation

- Final model variables business justification and relation with target
- Final model results and insights
- Final Recommendation

4. TIMELINES





5. RULES





- ✓ The Score file should be named as "TeamName_DDMM_v1 (submission No.)". For example file name for team ABC 2nd submission on 20th April will be "ABC_2004_v2".
- ✓ All Score file shared should be in csv format only
- ✓ The columns in score file should be id and Score_TeamName. For example score file should have 2 columns "id" and "Score_ABC"
- ✓ The Email subject for sharing score file should be "Orion Submission Team Name Week 1". Example "Orion Submission ABC Week 1"



- No other file formats other than csv would be accepted
- Only 1 submission for score would be accepted per week. If multiple submission are made, first one will be considered for evaluation
- Entry without Team Name will not be considered
- For Score file, only keep Id and Score columns in the file. Please do not include all attributes
- Do not delete any observations from the test samples while providing scores

6. RESOURCES



Software Support:

R & Python installation guide and links are available in the below mentioned link. This should be accessed from personal laptops

http://bit.do/Orion ML

Training Refresher

- Create an account on https://cognitiveclass.ai/. Sign Up using LinkedIn or Email so that the lectures are accessible on office computers as well.
- There are 4 sets of modules:

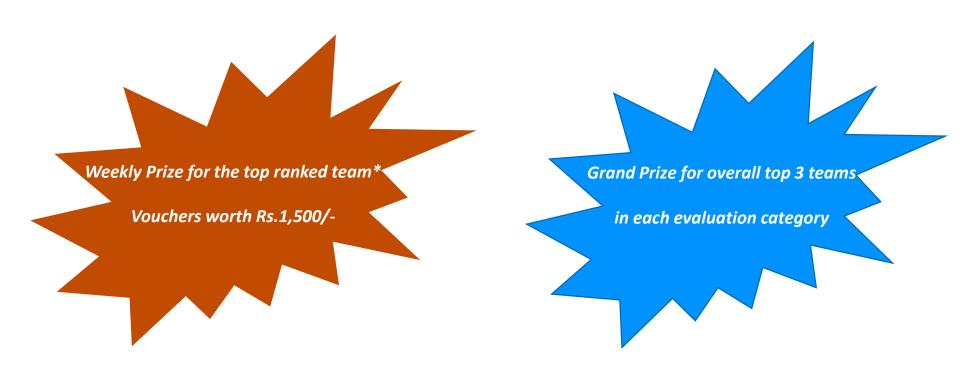
Modeling Basics – Pick any 1 Introduction to Data Science Cognitive Class / Fireside Analytics Inc. DS0101EN Predictive Modeling Fundamentals I Cognitive Class PA0101EN

Machine Learning - Pick any 1



REWARDS





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Happy Learning!

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