Round 1 Amount Prediction

Cortex
ANALYTICS SIMULATION

1 Access SAS Viya and Explore

1. Use your User ID and your password and click **Sign In**
2. Click on the hamburger icon ☰ on the top left
3. Click on **Explore and Visualize**
4. Double click on **Cortex Visual Analytics**
5. Use the first 3 tabs **(Game Scenario, Data Dictionary, and RD1: Explanation AmtThisYear)** to explore the game scenario and game data

2 Open Cortex Round 1 – Amount

1. Click on the hamburger icon ☰ on the top left
2. Select **Build Models**
3. Open **Cortex Round 1 – Amount** project by double clicking on it
4. In **Data** tab, change variable roles if desired

   NOTE: 'AmtThisYear' should stay target variable and 'GaveThisYear' should stay rejected

3 Improve the Default Pipeline

1. Click on **Pipelines** tab to access the default pipeline
2. To change predictive models' properties, click on the **Model** node and modify its properties on the right-hand side pane
3. To add other predictive models:
a) Open the left-hand side panel by clicking on ▣
b) Under **Supervised Learning**, drag a predictive model to **Data** node and release

4 Run the Pipeline/See Results

1. Click on **Run Pipeline**
2. When the run is complete (green check marks in all nodes), right click on **Model Comparison** node
3. Choose **Results**
4. The champion model is identified by 🔖
5. Close results by clicking on **Close** tab on top right
6. It is recommended to evaluate the performance of your models using **Insights** tab

5 Score New Data

1. Click on **Pipelines** tab
2. Open the left-hand side panel by clicking on ▣
3. Under **Miscellaneous**, drag **Score Data: RD1** node to your champion model node and release.
4. Click on **Score Data: RD1** node to open the properties panel
5. Under **Score data**, in **Table Name**, click **Browse**: *DataSource/Cas-shared-default/Public/CORTEX_ROUND1_SCOREDATA.sashdat**
6. Click **OK**
7. Run the pipeline again

6 Re-open Cortex Visual Analytics

1. Click on the hamburger icon ☰ on the top left
2. Select **Explore and Visualize**
3. Click on **RD1: Donors** tab
4. On the left-hand side, click on the **Data** icon
5. Under **Data**, open the drop-down list and choose SCORE_RD1_AM
6. Just beside the drop-down, click on **Action** icon 🗄
7. Click **Refresh SCORE_RD1_AMT**
8. Close data by re-clicking on **Data** icon from step 4

7 Select Donors

1. Click on the **Prediction Cutoff** and move the slider to choose your prediction cutoff point
2. Right click on the **Prediction** column
3. Click on **Sort** and choose **Prediction: Descending**

8 Export to .CSV

1. Right click on any column
2. Select **Export data**
3. Choose the rows you wish to export (e.g., 1-100)
4. Select only the **ID** column
5. Under the **File type**, choose **Comma-separated values (.csv)**
6. Click on OK
7. Your .csv file will be in Download folder on the computer
🏆 You can now upload your .csv file on the game leaderboard

! * If data is not already loaded, showing a gray lightening icon on top right, then ⚡ click on it. When the load is complete (icon turns green), click on OK. This may happen only the fisrt time you access the game.

Last Update: March 30, 2020