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|  | Lab  **05 – Cloudera Data Warehouse (Part 2)** |

Data Lifecycle on CDP Public Cloud

Data Warehouse Lab

This is the 2nd part of the ‘Data Warehouse Lab’ is divided into 2 Parts.

Let’s work on the 2nd Part now.

# Part 2: Integrating Data Viz & CML

Goals:

* Add a new field that makes calls to the ML model
* Add the new field to the dashboard

1. Edit the previously created Dataset, in Data -> <user\_assigned>.telco\_data\_curated.

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1. Once in the Dataset, go to **Fields** in the left menu and then click on **Edit Field** to edit the fields of your dataset.

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1. In the list of **Dimensions**, click the down arrow of the last field in the list, and select the option

**Clone**.

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1. Once the field is cloned, click on the pencil next to the field to edit it.

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1. In the popup window that appears, enter the name of the new field in **Display Name**. We suggest that you enter *ChurnScore.*

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1. Go to the Expressions tab and enter the following value in the Expression field. This will allow you to call the REST API of the Model you have previously deployed.

**Note**: The url and accessKey is something that you would have noted down as the last step in the CML lab.

cviz\_rest('{"url":"**https://modelservice.ml-6e4b5fc6-b95.psemeta.dp5i-5vkq.cloudera.site/model**","accessKey":"**miqnv6bxiwontz84ozoxfyc5rt6p6grb**","colnames":["monthlycharges","totalcharges","tenure","gender","dependents","onlinesecurity","multiplelines","internetservice","seniorcitizen","techsupport", "contract","streamingmovies","deviceprotection","paymentmethod","streamingtv","phoneservice", "paperlessbilling","partner","onlinebackup"],"response\_colname":"result"}')

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1. Finish the process of copying the ***url***and the ***accessKey***, click the **Validate Expression** button at the top of the window. If the message appears in green ***Validation Successful***, Click on **Apply** to save the settings made.

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1. The new field should appear in the list of fields. Change the data type, selecting the type

***Integer***, which is represented by the symbol **#**

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1. Finish the process by clicking on the green button with the legend **SAVE** in the top menu.

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1. Return to the dashboard, select the option **Related Dashboards** from the top left menu, and clicking on the name of the dashboard (**Churn Analysis**) that was previously created.

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1. Once in the dashboard, click on the button **Edit** which is in the upper left.

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1. Edit the lower table by clicking on it and then on the option **Build** from the right vertical menu. Add the new field, **ChurnScore**, at the beginning of the table, by clicking and dragging from the option **Dimensions** available.

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1. Click on the Refresh Visual button to update the data. The new column should appear *ChurnScore* then at the beginning of the table, with a value of numeric type. Finish the process by clicking the button **SAVE** from the top left menu.

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