

TRAIN THE MODEL ON IBM

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| Date | 17 November 2022 |
| Team ID | PNT2022TMID40776 |
| Project Name | Car Resale Value Prediction |

1) Register for IBM Cloud

The screenshot shows the IBM Watson Studio interface for a project named "Car Resale Value Prediction". The top navigation bar includes the IBM Watson Studio logo, a search bar, and user account information. The main content area is divided into three sections: "Assets", "Resource usage", and "Project history".

- Assets:** Lists two assets: "value prediction" (created 1 minute ago) and "Cleaned_Car_data.csv_flow" (created 18 minutes ago).
- Resource usage:** Shows a usage of 0.5 CUH for this month in this project.
- Project history:** Shows a log entry: "You created project Car Resale Value Prediction" at 03:12 PM today.

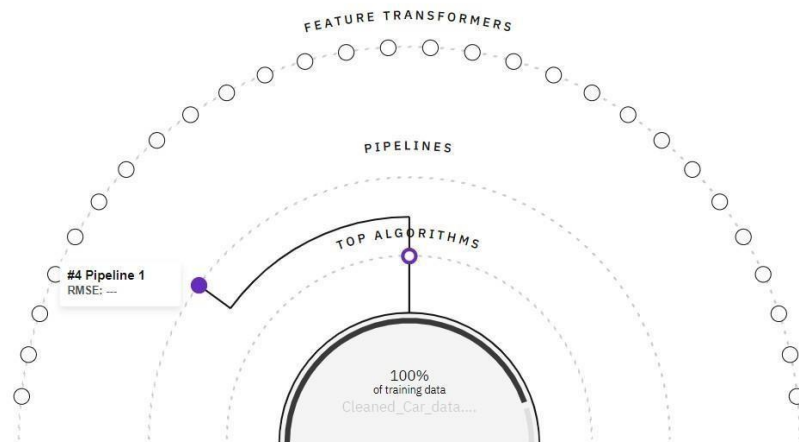
2) Train the ML model on IBM

The screenshot shows the IBM Watson Studio interface for the same project, but with the "Assets" tab selected. The left sidebar shows "3 assets" and "All assets". The main content area displays a table of assets.

| Name | Last modified |
|---|-----------------------------------|
| value prediction AutoAI experiment | Now Modified by you |
| Cleaned_Car_data.csv_flow Data Refinery flow | 17 minutes ago Modified by you |
| Cleaned_Car_data.csv csv | 29 minutes ago Modified by you |

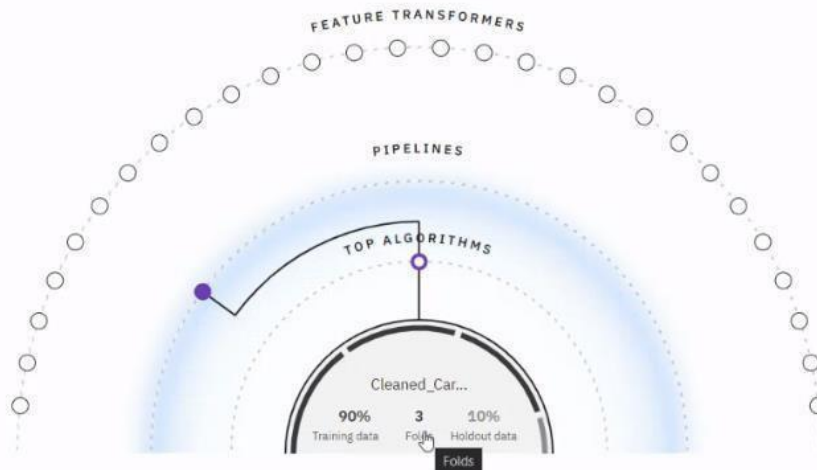
Relationship map ①

Prediction column: Price



Relationship map ②

Prediction column: Price



3) Integrate Flask with Scoring End Point

```
Projects / Car Resale Value Prediction / car-resale-value-prediction-LGBM

In [23]: model_id = wml_client.repository.get_model_id(model_details)
         model_id
Out[23]: '8852c589-045d-4e0e-a2cb-8f586f3b4648'

In [24]: # Set meta
         deployment_props = {
             wml_client.deployments.ConfigurationMetaNames.NAME: DEPLOYMENT_NAME,
             wml_client.deployments.ConfigurationMetaNames.ONLINE: {}
         }

In [25]: # Deploy
         deployment = wml_client.deployments.create(
             artifact_uid=model_id,
             meta_props=deployment_props
         )

=====
Synchronous deployment creation for uid: '8852c589-045d-4e0e-a2cb-8f586f3b4648' started
=====

initializing
Note: online_url is deprecated and will be removed in a future release. Use serving_url instead.
ready

=====
Successfully finished deployment creation, deployment_uid='7f67cbcd-6222-413b-9901-b2a72807ac82'
=====
```