

## TRAIN THE MODEL ON IBM

Date	17 November 2022
Team ID	PNT2022TMID13142
Project Name	Car Resale Value Prediction

### 1) Register for IBM Cloud

The screenshot shows the IBM Watson Studio interface. The top navigation bar includes the IBM Watson Studio logo, a search bar, and user account information (Sangavi R's Account, Frankfurt). The main content area is divided into four panels: Assets, Resource usage, Project history, and Readme. The Assets panel lists 'value prediction' (1 minute ago) and 'Cleaned\_Car\_data.csv\_flow' (18 minutes ago). The Resource usage panel shows '0.5 CUH' for this month. The Project history panel shows a recent creation event. The Readme panel is currently empty.

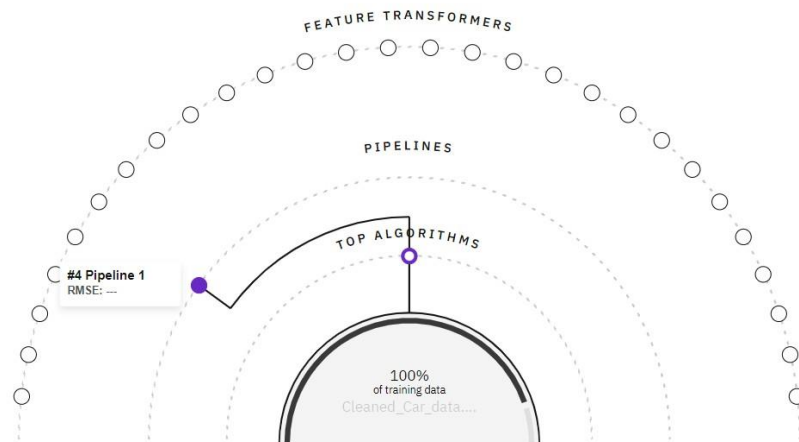
### 2) Train the ML model on IBM

The screenshot shows the IBM Watson Studio Assets page. The left sidebar displays '3 assets' and 'Asset types' (Data, Flows, Experiments). The main area shows a table of 'All assets' with columns 'Name' and 'Last modified'. The table lists three assets: 'value prediction' (AutoAI experiment, Now), 'Cleaned\_Car\_data.csv\_flow' (Data Refinery flow, 17 minutes ago), and 'Cleaned\_Car\_data.csv' (CSV, 29 minutes ago).

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

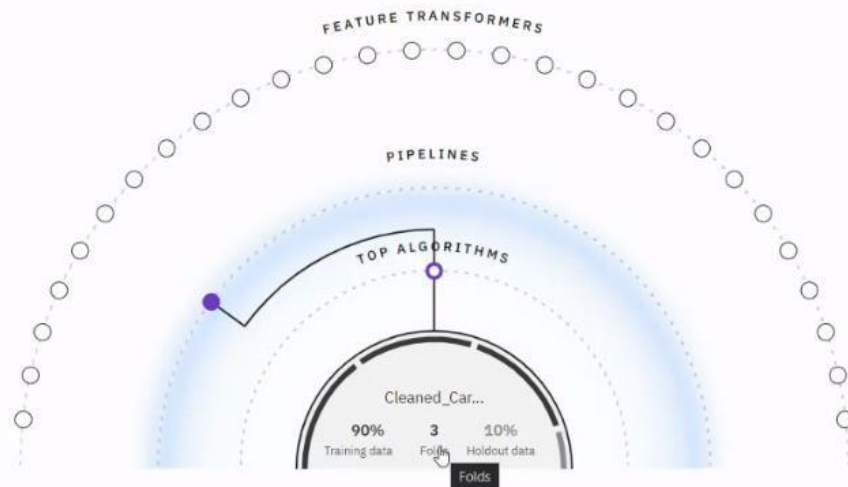
## Relationship map ①

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

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

In [25]: # Deploy
         deployment = uwl_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'
-----
```