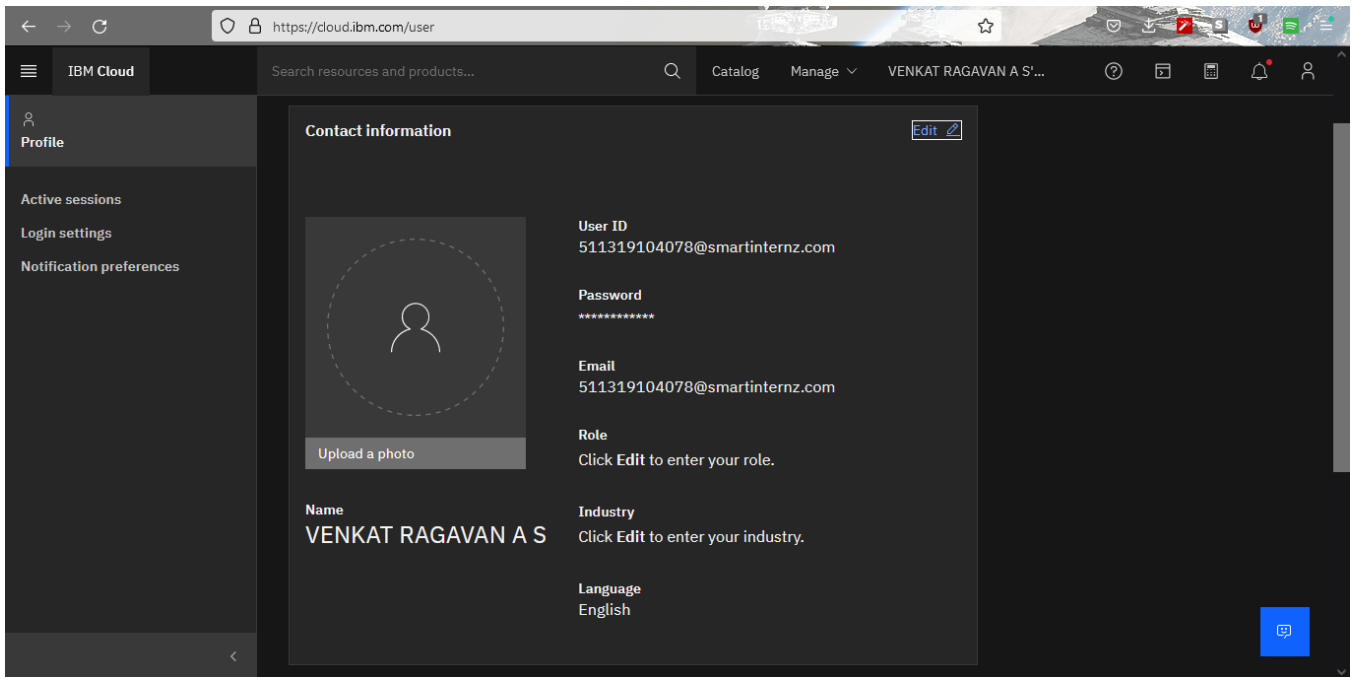


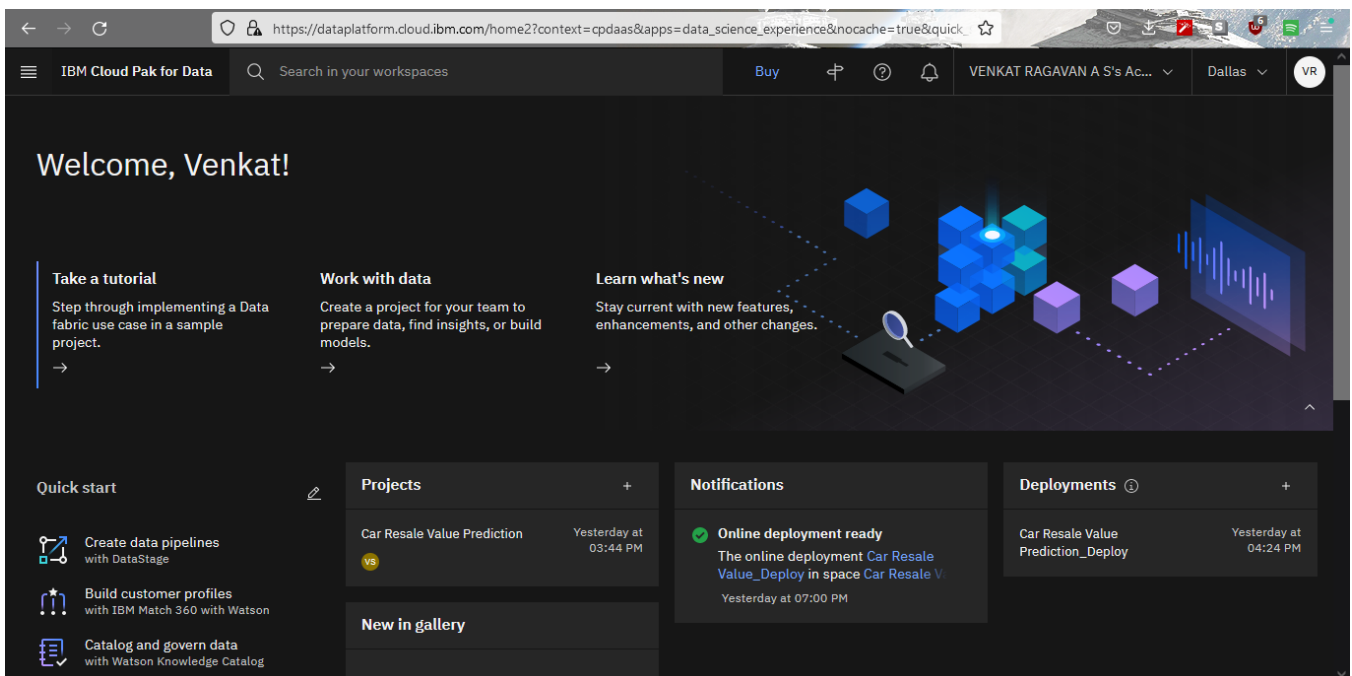
Train the Model on IBM

| | |
|--------------|-----------------------------|
| Date | 31 October 2022 |
| Team ID | PNT2022TMID39916 |
| Project Name | Car Resale Value Prediction |

1) Register for IBM Cloud



2) Train the ML model on IBM



← → ↺

https://dataplatfom.cloud.ibm.com/ml-runtime/spaces/f5d1c605-6d30-4253-aae5-19c0668e44da/deployments?cc

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| Name | Type | Status | Asset | Last modified | ↓ |
|---------------------------|--------|------------|---|---------------------------------------|---|
| 🔗 Car Resale Value_Deploy | Online | 🟢 Deployed | Car Resale Value Prediction - P4 Snap Random Forest Regressor | 1 day ago VENKAT RAGAVAN A S (You) | ⋮ |

Items per page: 20 1-1 of 1 items1 of 1 pages◀ ▶

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https://dataplatfom.cloud.ibm.com/ml/auto-ml/e11c43f3-b143-41a5-91b3-527b3114f756/train?projectId=ba304e52-38

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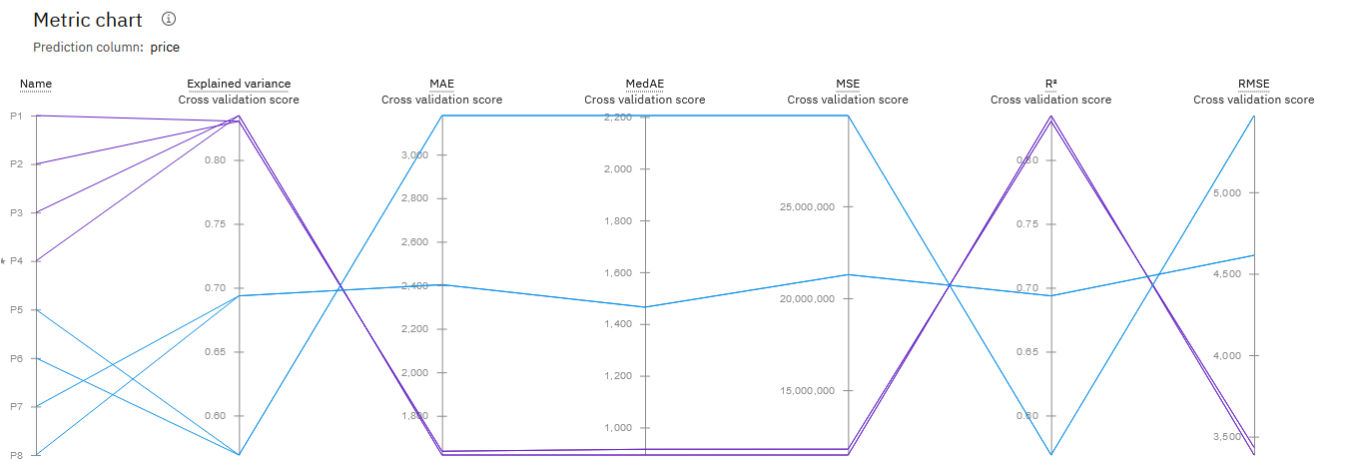
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Projects / Car Resale Value Prediction / Car Resale Value Prediction

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Experiment summaryPipeline comparison★ Rank by: Root mean squared error (RMSE) (... | Cross validation score ⚙️

| | Rank ↑ | Name | Algorithm | RMSE (Optimized) Cross Validation | Enhancements | Build time |
|---|--------|------------|--------------------------------|--------------------------------------|----------------|------------|
| ★ | 1 | Pipeline 4 | 🟡 Snap Random Forest Regressor | 3387.209 | HPO-1 FE HPO-2 | 00:06:34 |
| | 2 | Pipeline 3 | 🟡 Snap Random Forest Regressor | 3387.209 | HPO-1 FE | 00:02:19 |
| | 3 | Pipeline 2 | 🟡 Snap Random Forest Regressor | 3433.347 | HPO-1 | 00:01:39 |
| | 4 | Pipeline 1 | 🟡 Snap Random Forest Regressor | 3433.347 | None | 00:00:10 |
| | 5 | Pipeline 8 | 🟢 Ridge | 4612.936 | HPO-1 FE HPO-2 | 00:02:50 |
| | 6 | Pipeline 7 | 🟢 Ridge | 4612.936 | HPO-1 FE | 00:00:58 |
| | 7 | Pipeline 6 | 🟢 Ridge | 5470.958 | HPO-1 | 00:00:29 |



Prediction results ⓘ

Prediction type

Regression

Prediction distribution

Amount of predictions

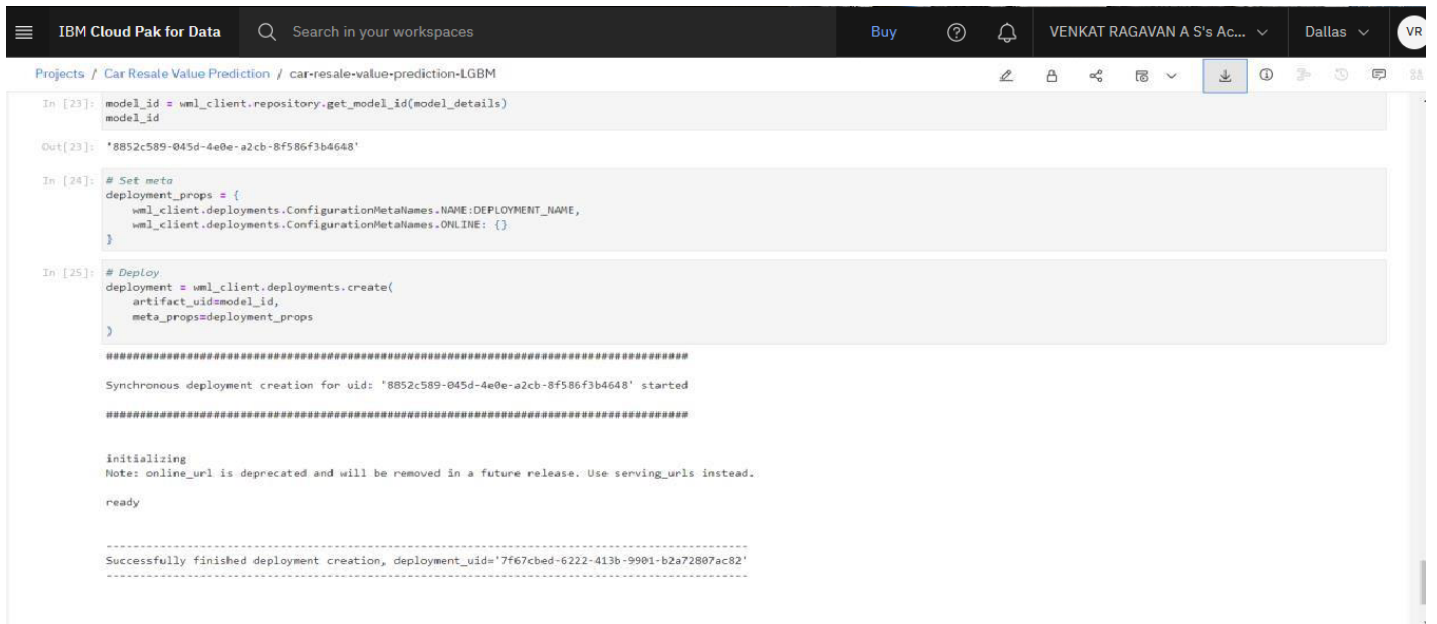
Prediction value

☒ Table view ☐ JSON view

| | Prediction |
|---|-------------------|
| 1 | 7931.002490234376 |
| 2 | 4390.574438476563 |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |

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3) Integrate Flask with Scoring End Point



The screenshot shows the IBM Cloud Pak for Data interface. The top navigation bar includes the IBM logo, 'IBM Cloud Pak for Data', a search bar, and user information for 'VENKAT RAGAVAN A S's Ac...' in 'Dallas'. The main workspace displays a Jupyter Notebook titled 'Projects / Car Resale Value Prediction / car-resale-value-prediction-LGBM'. The notebook contains three code cells:

```
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_urls instead.

ready

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