

# TRAIN THE MODEL ON IBM

The screenshot shows the IBM Watson Studio interface. The top navigation bar includes 'Home Page', 'My IBM', 'IBM Cloud', 'IBM Watson', and 'IBM Project'. The main header shows 'IBM Watson Studio' and a search bar. The breadcrumb trail is 'Projects / car-resale'. The 'Assets' tab is selected, showing a list of assets. On the left, there are filters for 'Find assets' and 'Asset types' (Data: 1, Notebooks: 1). The main table lists assets:

Name	Last modified
Preprocessing and Model-Building Notebook	Now Modified by you
quikr_car.csv	3 hours ago Modified by you

At the bottom, there is a 'Data in this project' section with a drop zone for uploading files. The taskbar at the bottom shows various application icons and the system clock (22:47, 18-11-2022).

The screenshot shows the 'Preprocessing and Model-Building' notebook in IBM Watson Studio. The notebook is open in a Jupyter-like interface with a menu bar (File, Edit, View, Insert, Cell, Kernel, Help) and a toolbar. The code in the notebook is as follows:

```
In [1]: import pandas as pd
import numpy as np

In [5]: import os, types
import pandas as pd
from boto3.client import Config
import boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
cos_client = boto3.client(service_name='s3',
    ibm_api_key_id='3rxH0VDb2mI3G0M4TVNIXd1_1k1bC0n5o1sHam49QXE',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

bucket = 'carresale-donotdelete-pr-ztkp98soa83evn'
object_key = 'quikr_car.csv'
```

The taskbar at the bottom shows various application icons and the system clock (22:22, 18-11-2022).

Home Page - Sell x My IBM x Service Details - x Preprocessing an x Identity & Access x IBM x IBM-Project-282 x +

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Projects / car-resale / Preprocessing and Model-Building

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```

bucket = 'carresale-donotdelete-pr-ztkp98soa83evn'
object_key = 'quikr_car.csv'

body = cos_client.get_object(Bucket=bucket,Key=object_key)['Body']
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

car = pd.read_csv(body)
car.head()

```

Out[5]:

	name	company	year	Price	kms_driven	fuel_type
0	Hyundai Santro Xing XO eRLX Euro III	Hyundai	2007	80,000	45,000 kms	Petrol
1	Mahindra Jeep CL550 MDI	Mahindra	2006	4,25,000	40 kms	Diesel
2	Maruti Suzuki Alto 800 Vxi	Maruti	2018	Ask For Price	22,000 kms	Petrol
3	Hyundai Grand i10 Magna 1.2 Kappa VTVT	Hyundai	2014	3,25,000	28,000 kms	Petrol
4	Ford EcoSport Titanium 1.5L TDCi	Ford	2014	5,75,000	36,000 kms	Diesel

In [6]: car.head()

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```

In [6]: car.head()

Out[6]:

```

	name	company	year	Price	kms_driven	fuel_type
0	Hyundai Santro Xing XO eRLX Euro III	Hyundai	2007	80,000	45,000 kms	Petrol
1	Mahindra Jeep CL550 MDI	Mahindra	2006	4,25,000	40 kms	Diesel
2	Maruti Suzuki Alto 800 Vxi	Maruti	2018	Ask For Price	22,000 kms	Petrol
3	Hyundai Grand i10 Magna 1.2 Kappa VTVT	Hyundai	2014	3,25,000	28,000 kms	Petrol
4	Ford EcoSport Titanium 1.5L TDCi	Ford	2014	5,75,000	36,000 kms	Diesel

```

In [7]: car.shape

Out[7]: (892, 6)

In [8]: car.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 892 entries, 0 to 891
Data columns (total 6 columns):
#   Column      Non-Null Count  Dtype
---  ---
0   name        892 non-null    object

```

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The screenshot shows the IBM Watson Studio interface. At the top, there's a navigation bar with tabs for 'Home Page - Sell', 'My IBM', 'Service Details', 'Preprocessing an...', 'Identity & Access', and 'IBM'. Below this is a search bar and a 'Buy' button. The main area displays a Jupyter Notebook with the following content:

```

2 year      892 non-null object
3 Price     892 non-null object
4 kms_driven 840 non-null object
5 fuel_type 837 non-null object
dtypes: object(6)
memory usage: 41.9+ KB

In [9]: car['year'].unique()

Out[9]: array(['2007', '2006', '2018', '2014', '2015', '2012', '2013', '2016',
              '2010', '2017', '2008', '2011', '2019', '2009', '2005', '2000',
              ..., '150k', 'TOUR', '2003', 'r 15', '2004', 'Zest', '/-Rs',
              'sale', '1995', 'ara', '2002', 'SELL', '2001', 'tion', 'odel',
              '2 bs', 'arry', 'Eon', 'o...', 'ture', 'emi', 'car', 'able', 'no.',
              'd...', 'SALE', 'digo', 'sell', 'd Ex', 'n...', 'e...', 'D...',
              'Ac', 'go', 'k...', 'o c4', 'zire', 'cent', 'Sumo', 'cab',
              't xe', 'EV2', 'r...', 'zest'], dtype=object)

In [10]: car['Price'].unique()

Out[10]: array(['80,000', '4,25,000', 'Ask For Price', '3,25,000', '5,75,000',
               '1,75,000', '1,90,000', '8,30,000', '2,50,000', '1,82,000',
               '3,15,000', '4,15,000', '3,20,000', '10,00,000', '5,00,000',
               '3 50 000', '1 60 000', '3 10 000', '75 000', '1 00 000'])
  
```

The interface also shows a 'report.pdf' icon and a 'Show all' button at the bottom right.

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```
00,000 kms', '6,742 kms', '2,17,000 kms', '2,70,000 kms',  
'10,750 kms', '6,800 kms', '5 kms', '9,800 kms', '57,923 kms',  
'30,201 kms', '6,200 kms', '37,518 kms', '24,652 kms', '383 kms',  
'95,000 kms', '3,528 kms', '52,500 kms', '47,900 kms',  
'52,800 kms', '1,95,000 kms', '48,008 kms', '48,247 kms',  
'9,400 kms', '64,000 kms', '2,137 kms', '10,544 kms', '49,500 kms',  
'1,47,000 kms', '90,001 kms', '48,006 kms', '74,000 kms',  
'85,000 kms', '29,500 kms', '39,700 kms', '67,000 kms',  
'19,336 kms', '60,105 kms', '45,933 kms', '1,02,563 kms',  
'28,600 kms', '41,800 kms', '1,16,000 kms', '42,590 kms',  
'7,400 kms', '54,500 kms', '76,000 kms', '00 kms', '11,523 kms',  
'38,600 kms', '95,500 kms', '37,458 kms', '85,960 kms',  
'12,516 kms', '30,600 kms', '2,550 kms', '62,500 kms',  
'69,000 kms', '28,400 kms', '68,485 kms', '3,500 kms',  
'85,455 kms', '63,000 kms', '1,600 kms', '77,000 kms',  
'26,500 kms', '2,875 kms', '13,900 kms', '1,500 kms', '2,450 kms',  
'1,625 kms', '33,400 kms', '60,123 kms', '38,900 kms',  
'1,37,495 kms', '91,200 kms', '1,46,000 kms', '1,00,800 kms',  
'2,100 kms', '2,500 kms', '1,32,000 kms', 'Petrol'], dtype=object)
```

```
In [12]: car['fuel_type'].unique()  
Out[12]: array(['Petrol', 'Diesel', nan, 'LPG'], dtype=object)
```

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```
In [13]: backup=car.copy()  
In [14]: car=car[car['year'].str.isnumeric()]  
In [15]: car['year']=car['year'].astype(int)  
In [16]: car=car[car['Price']!='Ask For Price']  
In [17]: car['Price']=car['Price'].str.replace(',','').astype(int)  
In [18]: car['kms_driven']=car['kms_driven'].str.split(' ').str.get(0).str.replace(',','')  
In [19]: car=car[car['kms_driven'].str.isnumeric()]  
In [20]: car['kms_driven']=car['kms_driven'].astype(int)  
In [21]: car=car[~car['fuel_type'].isna()]
```

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In [22]: `car['name']=car['name'].str.split(' ').str.slice(0,3).str.join(' ')`

In [23]: `car=car.reset_index(drop=True)`

In [24]: `car=car[car['Price']<6e6].reset_index(drop=True)`

In [25]: `car.to_csv('Cleaned Car.csv')`

### MODEL BUILDING

In [26]: `x=car.drop(columns='Price')`  
`y=car['Price']`

In [27]: `from sklearn.model_selection import train_test_split`  
`x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2)`

In [28]: `from sklearn.linear_model import LinearRegression`

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`from sklearn.metrics import r2_score`  
`from sklearn.preprocessing import OneHotEncoder`  
`from sklearn.compose import make_column_transformer`  
`from sklearn.pipeline import make_pipeline`

In [29]: `ohe=OneHotEncoder()`  
`ohe.fit(x[['name','company','fuel_type']])`

Out[29]: OneHotEncoder()

In [30]: `ohe.categories_`

Out[30]: `array(['Audi A3 Cabriolet', 'Audi A4 1.8', 'Audi A4 2.0', 'Audi A6 2.0', 'Audi A8', 'Audi Q3 2.0', 'Audi Q5 2.0', 'Audi Q7', 'BMW 3 Series', 'BMW 5 Series', 'BMW 7 Series', 'BMW X1', 'BMW X1 sDrive20d', 'BMW X1 xDrive20d', 'Chevrolet Beat', 'Chevrolet Beat Diesel', 'Chevrolet Beat LS', 'Chevrolet Beat LT', 'Chevrolet Beat PS', 'Chevrolet Cruze LTZ', 'Chevrolet Enjoy', 'Chevrolet Enjoy 1.4', 'Chevrolet Sail 1.2', 'Chevrolet Sail UVA', 'Chevrolet Spark', 'Chevrolet Spark 1.0', 'Chevrolet Spark LS', 'Chevrolet Spark LT', 'Chevrolet Tavera LS', 'Chevrolet Tavera Neo', 'Datsun GO T', 'Datsun Go Plus', 'Datsun Redi GO', 'Fiat Linea Emotion', 'Fiat Petra ELX', 'Fiat Punto Emotion', 'Force Motors Force', 'Force Motors One', 'Ford EcoSport', 'Ford EcoSport Ambiente'],`

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```
'Volkswagen Jetta Comfortline', 'Volkswagen Jetta Highline',
'Volkswagen Passat Diesel', 'Volkswagen Polo',
'Volkswagen Polo Comfortline', 'Volkswagen Polo Highline',
'Volkswagen Polo Highline1.2L', 'Volkswagen Polo Trendline',
'Volkswagen Vento Comfortline', 'Volkswagen Vento Highline',
'Volkswagen Vento Konekt', 'Volvo S80 Summum'], dtype=object),
array(['Audi', 'BMW', 'Chevrolet', 'Datsun', 'Fiat', 'Force', 'Ford',
'Hindustan', 'Honda', 'Hyundai', 'Jaguar', 'Jeep', 'Land',
'Mahindra', 'Maruti', 'Mercedes', 'Mini', 'Mitsubishi', 'Nissan',
'Renault', 'Skoda', 'Tata', 'Toyota', 'Volkswagen', 'Volvo'],
dtype=object),
array(['Diesel', 'LPG', 'Petrol'], dtype=object)]

In [31]: column_trans=make_column_transformer((OneHotEncoder(categories=ohe.categories_),['name', 'company', 'fuel_type']),remainder='passthrough')

In [32]: lr=LinearRegression()

In [33]: pipe=make_pipeline(column_trans,lr)

In [34]: pipe.fit(x_train,y_train)

Out[34]: Pipeline(steps=[('columntransformer',
ColumnTransformer(remainder='passthrough',
```

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```
array(['Diesel', 'LPG', 'Petrol'], dtype=object)]),
['name', 'company',
'fuel_type'])))],
('linearregression', LinearRegression()))]]

In [35]: y_pred=pipe.predict(x_test)

In [36]: r2_score(y_test,y_pred)

Out[36]: 0.4681661969361198

In [37]: scores=[]
for i in range(1000):
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2, random_state=i)
lr=LinearRegression()
pipe=make_pipeline(column_trans,lr)
pipe.fit(x_train,y_train)
y_pred=pipe.predict(x_test)
scores.append(r2_score(y_test,y_pred))

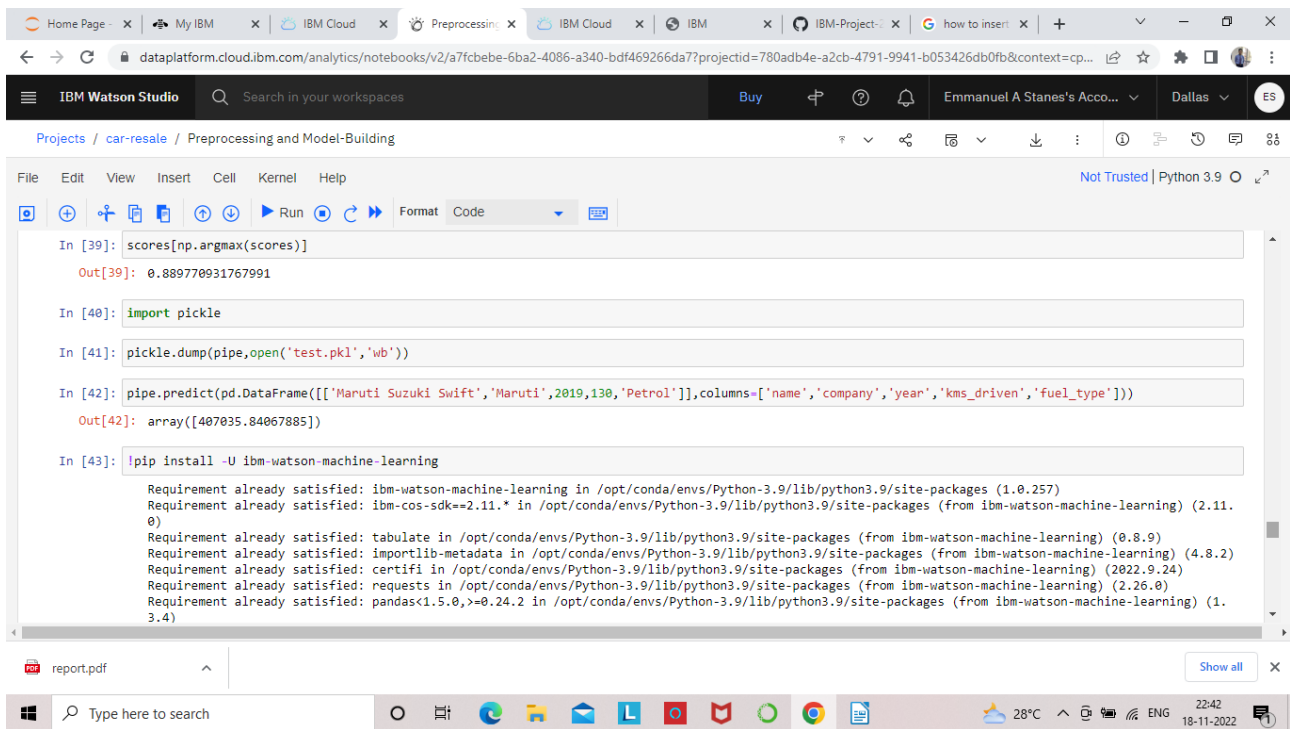
In [38]: np.argmax(scores)

Out[38]: 661
```

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# Deploying



The screenshot shows the IBM Watson Studio interface. The top navigation bar includes the IBM logo, a search bar, and user information. The main workspace displays a Jupyter notebook with the following code cells:

```
In [39]: scores[np.argmax(scores)]
Out[39]: 0.889778931767991

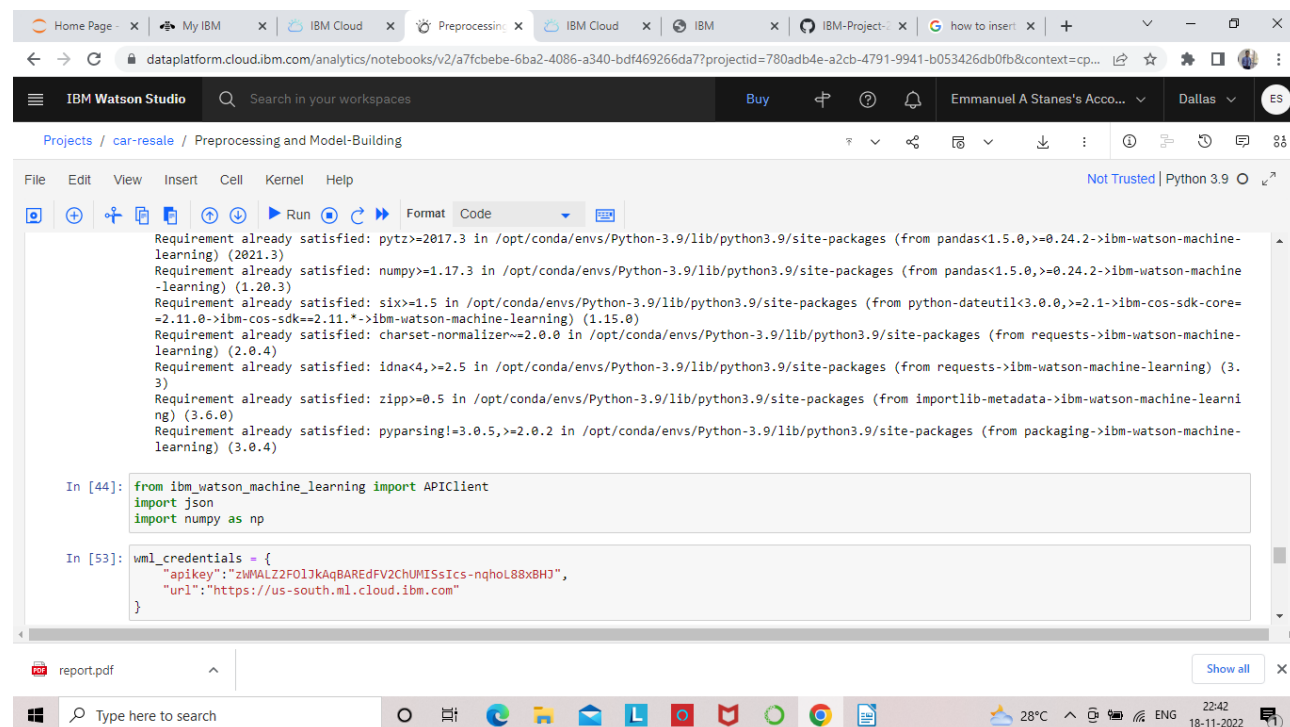
In [40]: import pickle

In [41]: pickle.dump(pipe,open('test.pkl','wb'))

In [42]: pipe.predict(pd.DataFrame([['Maruti Suzuki Swift','Maruti',2019,130,'Petrol']],columns=['name','company','year','kms_driven','fuel_type']))
Out[42]: array([407035.84067885])

In [43]: !pip install -U ibm-watson-machine-learning
Requirement already satisfied: ibm-watson-machine-learning in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (1.0.257)
Requirement already satisfied: ibm-cos-sdk==2.11.* in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (2.11.0)
Requirement already satisfied: tabulate in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (0.8.9)
Requirement already satisfied: importlib-metadata in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (4.8.2)
Requirement already satisfied: certifi in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (2022.9.24)
Requirement already satisfied: requests in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (2.26.0)
Requirement already satisfied: pandas<1.5.0,>=0.24.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-watson-machine-learning) (1.3.4)
```

The bottom of the interface shows a taskbar with various application icons and system information.



The screenshot shows the IBM Watson Studio interface. The top navigation bar includes the IBM logo, a search bar, and user information. The main workspace displays a Jupyter notebook with the following code cells:

```
Requirement already satisfied: pytz>=2017.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from pandas<1.5.0,>=0.24.2->ibm-watson-machine-learning) (2021.3)
Requirement already satisfied: numpy>=1.17.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from pandas<1.5.0,>=0.24.2->ibm-watson-machine-learning) (1.20.3)
Requirement already satisfied: six>=1.5 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from python-dateutil<3.0.0,>=2.1->ibm-cos-sdk-core==2.11.0->ibm-cos-sdk==2.11.*->ibm-watson-machine-learning) (1.15.0)
Requirement already satisfied: charset-normalizer==2.0.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from requests->ibm-watson-machine-learning) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from requests->ibm-watson-machine-learning) (3.3)
Requirement already satisfied: zipp>=0.5 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from importlib-metadata->ibm-watson-machine-learning) (3.6.0)
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from packaging->ibm-watson-machine-learning) (3.0.4)

In [44]: from ibm_watson_machine_learning import APIClient
import json
import numpy as np

In [53]: wml_credentials = {
    "apikey": "zIMALZ2F01JkAqBAREdFV2ChUMISsIcs-nqhoL88xBHJ",
    "url": "https://us-south.ml.cloud.ibm.com"
}
```

The bottom of the interface shows a taskbar with various application icons and system information.

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In [55]: `wml_client=APIClient(wml_credentials)`  
`wml_client.spaces.list()`

Note: 'limit' is not provided. Only first 50 records will be displayed if the number of records exceed 50

ID	NAME	CREATED
1c9273b9-5368-4639-b784-40755319f205	deployment	2022-11-18T15:15:47.480Z

In [56]: `space_id="1c9273b9-5368-4639-b784-40755319f205"`

In [57]: `wml_client.set.default_space(space_id)`

Out[57]: 'SUCCESS'

In [58]: `wml_client.software_specifications.list(500)`

NAME	ASSET_ID	TYPE
default_py3.6	0062b8c9-8b7d-44a0-a9b9-46c416adcbd9	base
kernel-spark3.2-scala2.12	020d69ce-7ac1-5e68-ac1a-31189867356a	base
pytorch-onnx_1.3-py3.7-edt	069ea134-3346-5748-b513-49120e15d288	base
scikit-learn_0.20-nv3.6	09c5a1d0-9c1e-4d73-a344-eh7b665ff687	base

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NAME	ASSET_ID	TYPE
default_r3.6	1b70aec3-ab34-4b87-8aa0-a4a3c8296a36	base
pytorch-onnx_1.3-py3.6	1bc6029a-cc97-56da-b0e0-39c3880dbbe7	base
kernel-spark3.3-r3.6	1c9e5454-f216-59dd-a20e-474a5cdf5988	base

In [59]: `MODEL_NAME="Car_resale"`  
`DEPLOYMENT_NAME="CAR_DEPLOY"`  
`DEMO_MODEL=y_pred`

In [60]: `software_spec_uid=wml_client.software_specifications.get_id_by_name('runtime-22.1-py3.3')`

In [61]: `model_props={`  
 `wml_client.repository.ModelMetaNames.NAME:MODEL_NAME,`  
 `wml_client.repository.ModelMetaNames.TYPE:'scikit_learn_1.0',`  
 `wml_client.repository.ModelMetaNames.SOFTWARE_SPEC_UID: software_spec_uid`  
`}`

In [ ]: `model_details=wml_client.repository.store_model(`  
 `model=Car_space,`  
 `meta_props=model_props,`  
 `training_data=x_train,`  
 `training_target=y_train`  
`)`

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