

eu-de.dataplatfom.cloud.ibm.com/projects/bfbc3681-ee70-483c-a22b-64eadfe28366/data-assets/65999698-89d7-4dab-83c6-b670ef11fe60/preview?context=cpdaas

IBM Watson Studio

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Shubh Sharma's Account

Frankfurt

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Projects / IBM Internship Project / customer_booking.csv

Prepare data

Preview assetVisualizationFeature group β

Columns: 14 | Sample rows: 1000

Last refresh: 1 minute ago

num_passengers	sales_channel	trip_type	purchase_lead	length_of_stay	flight_hour	flight_day
2	Internet	RoundTrip	262	19	7	Sat
1	Internet	RoundTrip	112	20	3	Sat
2	Internet	RoundTrip	243	22	17	Wed
1	Internet	RoundTrip	96	31	4	Sat
2	Internet	RoundTrip	68	22	15	Wed
1	Internet	RoundTrip	3	48	20	Thu
3	Internet	RoundTrip	201	33	6	Thu
2	Internet	RoundTrip	238	19	14	Mon
1	Internet	RoundTrip	80	22	4	Mon
1	Mobile	RoundTrip	378	30	12	Sun
2	Internet	RoundTrip	185	25	14	Tue
1	Internet	RoundTrip	8	43	2	Sat
4	Internet	RoundTrip	265	24	19	Mon
1	Internet	RoundTrip	185	17	14	Fri
1	Internet	RoundTrip	245	34	4	Tue
1	Internet	RoundTrip	192	18	14	Thu

About this asset

Name

customer_booking.csv

CSV

Description

What's the purpose of this asset?

Tags

Add tags to make assets easier to find.

Last modified

3 minutes ago by Shubh Sharma

Created on

Aug 03, 2024 by Shubh Sharma

eu-de.dataplatfom.cloud.ibm.com/shaper?project_id=bfbc3681-ee70-483c-a22b-64eadfe28366&dataset_id=65999698-89d7-4dab-83c6-b670ef11fe60&context=cpdaas

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Projects / IBM Internship Project / customer_booking.csv / Data Refinery

Steps (1)

Data source

customer_booking.csv

1. Convert column type

Automatically converted one or more columns to inferred data types. Strings that are converted to decimal use a dot (.) for the decimal symbol.

Auto-generated

Use a code template to add a step

DataProfileVisualizations

flight_day

String

FREQUENCY

Mon

Wed

Tue

Thu

Sun

Fri

Sat

STATISTICS

7

Maximum length

0

Minimum length

23

Mean length

9

Unique

5.587312000912385

route

String

FREQUENCY

AKLKUL

DMKJOL

COXJYJ

CVBHEL

CONHEL

DMHJLR

COVPER

CVBBDP

DEHJEL

DMHJEL

STATISTICS

Maximum length

Minimum length

Mean length

Unique

booking_origin

String

FREQUENCY

Australia

Malaysia

New Zealand

India

Indonesia

China

Japan

Sri Lanka

South Korea

Taiwan

STATISTICS

Maximum length

Minimum length

Mean length

Unique

About this asset

Name

customer_booking.csv_flow

Data Refinery flow

Description

What is the purpose of this Data Refinery flow?

Asset details

Steps: 1

Associated assets

Source: customer_booking.csv

Target: customer_booking_csv_shap...

Last modified

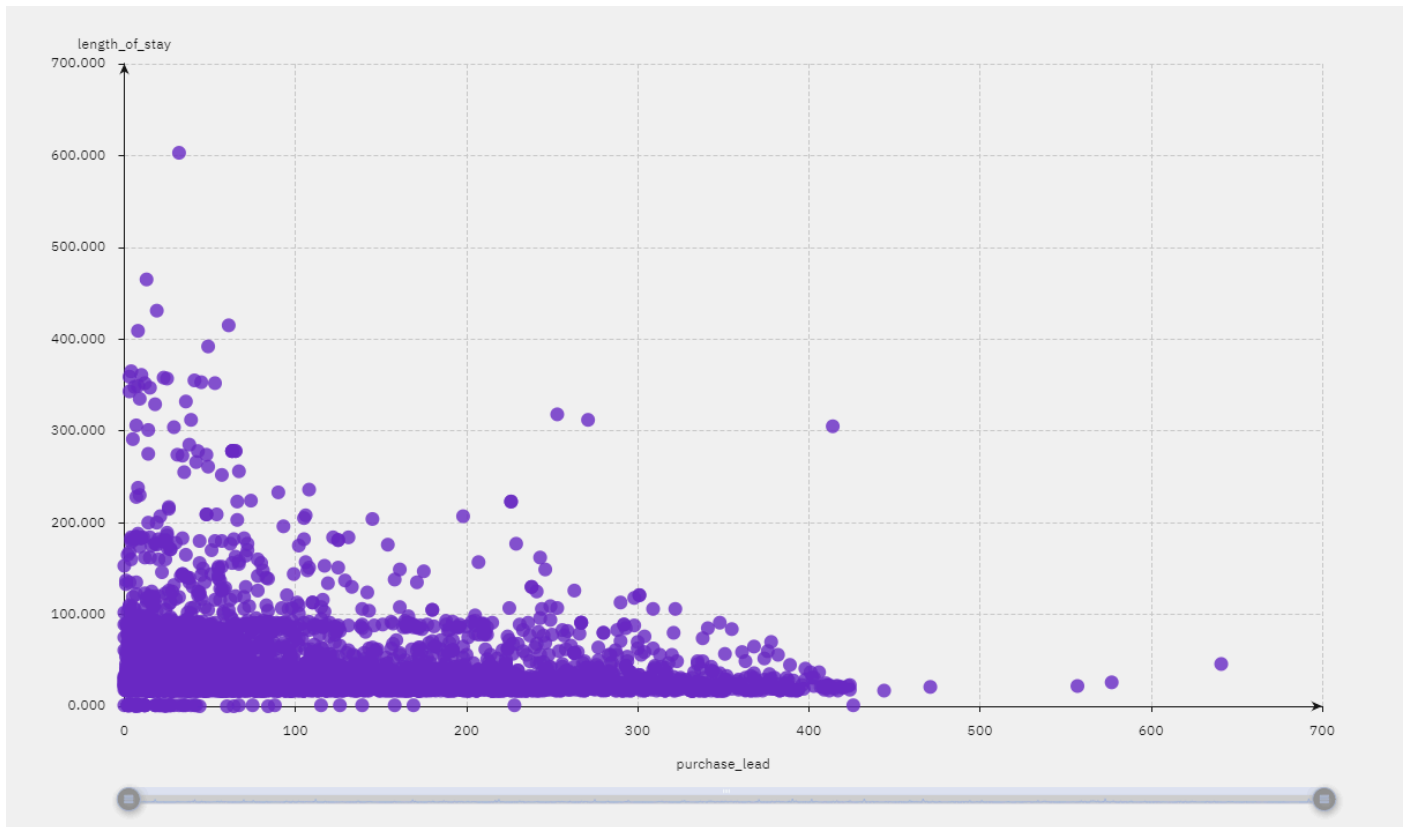
Sat, Aug 03, 2024, 11:50 AM

Shubh Sharma

Created on

Sat, Aug 03, 2024, 11:50 AM

Shubh Sharma



Configure AutoAI experiment

Airline Booking Prediction

Autosaved: 12:14:35 PM

Add data source

Add files such as tabular data (CSV).

[Browse](#) [Select data from project](#)

customer_booking.csv
Size: 3 MB Columns: 14

Configure details

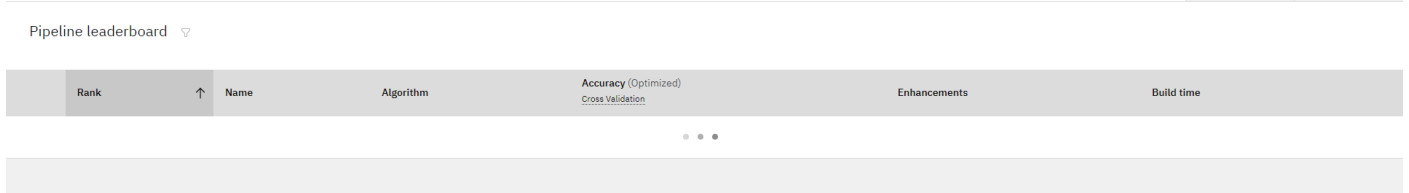
Create a time series analysis?
Enable this option to predict future activity over a specified date/time range. Data must be structured and sequential. [Learn more](#)

What do you want to predict?
Prediction column

Prediction column: booking_complete CUH remaining: 13.9 CUH

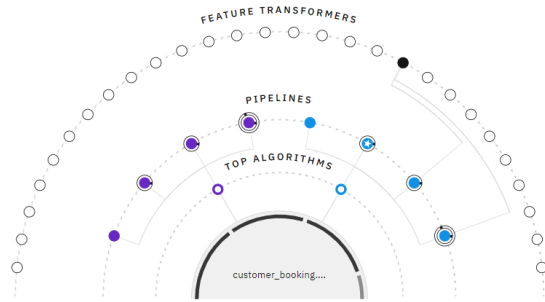
PREDICTION TYPE	POSITIVE CLASS	OPTIMIZED FOR
Binary Classification	1	Accuracy & run time

Experiment settings [Run experiment](#)



Relationship map

Prediction column: booking_complete



Progress map

Swap view

Experiment completed ✓

8 PIPELINES GENERATED

8 pipelines generated from algorithms. See pipeline leaderboard below for more detail.

Time elapsed: 5 minutes

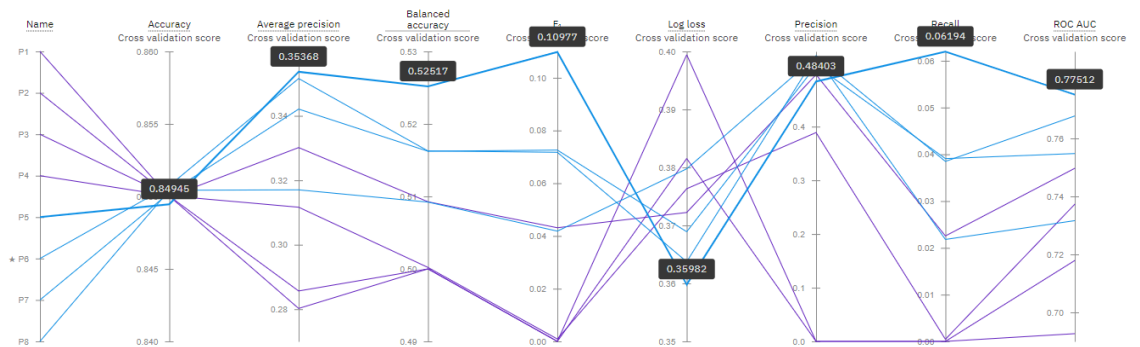
[View log](#) [Save code](#)

Pipeline leaderboard

	Rank	↑	Name	Algorithm	Accuracy (Optimized) Cross Validation	Enhancements	Build time
★	1		Pipeline 6	XGB Classifier	0.851	HPO-1	00:00:23
	2		Pipeline 8	XGB Classifier	0.850	HPO-1 FE HPO-2	00:02:03

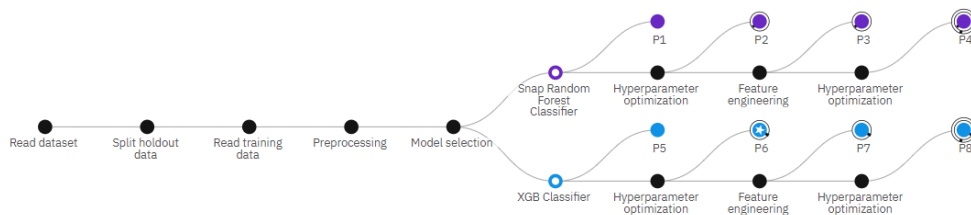
Metric chart

Prediction column: booking_complete



Progress map

Prediction column: booking_complete



	Rank	↑	Name	Algorithm	Accuracy (Optimized) Cross Validation	Precision Cross Validation	Precision Holdout	Enhancements	Build time
★	1		Pipeline 6	XGB Classifier	0.851	0.532	0.519	HPO-1	00:00:23
	2		Pipeline 8	XGB Classifier	0.850	0.531	0.438	HPO-1 FE HPO-2	00:02:03
	3		Pipeline 7	XGB Classifier	0.850	0.513	0.536	HPO-1 FE	00:01:31
	4		Pipeline 4	Snap Random Forest Classifier	0.850	0.389	0.000	HPO-1 FE HPO-2	00:01:00
	5		Pipeline 3	Snap Random Forest Classifier	0.850	0.000	0.000	HPO-1 FE	00:00:40
	6		Pipeline 2	Snap Random Forest Classifier	0.850	0.000	0.000	HPO-1	00:00:13
	7		Pipeline 1	Snap Random Forest Classifier	0.850	0.497	0.514	None	00:00:03
	8		Pipeline 5	XGB Classifier	0.849	0.484	0.517	None	00:00:04

Pipeline details

Pipeline 6

Rank

1

Accuracy (Optimized)

0.850 (Holdout)

Algorithm

XGB Classifier

Enhancements

HPO-1

Save as

Model viewer

Model information

Feature summary

Evaluation

Model evaluation

Confusion matrix

Precision recall

Confusion matrix

Observed	Predicted		
	1	0	Percent correct
1	27	712	3.7%
0	25	4165	99.4%
Percent correct	51.9%	85.4%	85.0%

Less correct

More correct

Deployments / IBM internship / Airline Booking Prediction - P6 X...

Airline booking prediction

API reference

Direct link

Private endpoint

Public endpoint

Code snippets

cURL

JavaScript

Python

Scala

About this deployment

Name

Description

Deployment Details

Associated asset

Last modified

Created on

NOTE: you must set \$API_KEY below using information retrieved from your IBM Cloud account (https://eu-de.dataplatform.cloud.ibm.com/docs/content/wsj/analyze-data/ml-authentication.html)

the above CURL request will return an auth token that you will use as \$IAM_TOKEN in the scoring request below

TODO: manually define and pass values to be scored below

47b7bb4-b8ef-4cf8-8687-8679381ece9f