

Yunting LU



Version

1.0

Author

yunting.lu

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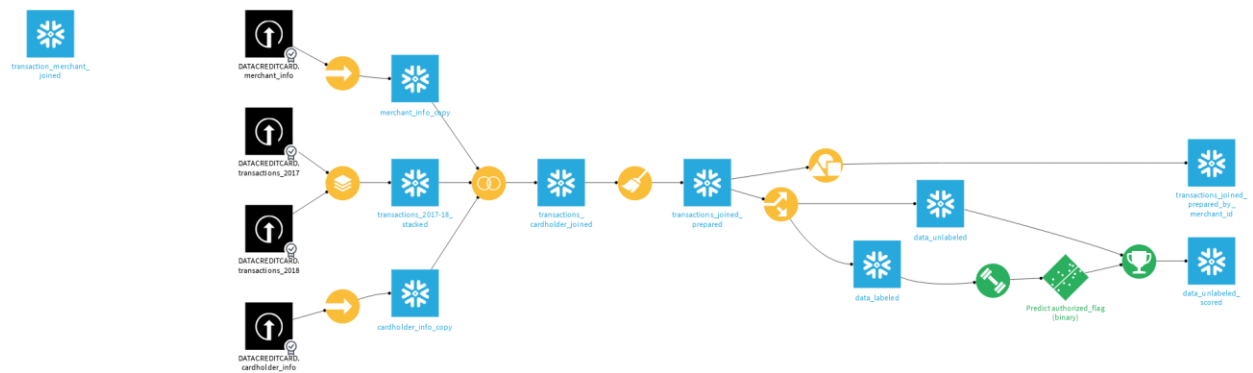
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I. Project general description

Project references for the created flow:

- Project name: **Yunting LU**
- Project key: **YUNTINGLU**
- Project short description:
*The project *Yunting LU* was created by yunting.lu on Apr 19th 2023*
- Status: **Sandbox**
- Current git branch: **master**
- Created by **yunting.lu** on the 2023-04-19 12:01:49
- Last Modification by **yunting.lu** on the 2023-04-19 15:00:05

II. Graphical Representation of the Flow



III. Datasets

List all the datasets in the flow.

1. transactions_2017

Summarized information about your dataset transactions_2017:

- This dataset has not been created in this project. Its origin project is **data credit card**

a) Status of the dataset transactions_2017

Characteristics of the dataset transactions_2017:

- Source project name: **data credit card**
- Type: **Uploaded Files**
- Connection: **dataiku-managed-storage**
- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **maxime.capron** on the 2023-04-19 06:42:26
- Last Modification by **maxime.capron** on the 2023-04-19 06:42:49

b) Related Recipes

The dataset transactions_2017 relates to the following recipes.

Successor Recipes

List of recipes with transactions_2017 as an input:

- compute_transactions_2017-18_stacked ([Stack](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
transaction_id	string	

authorized_flag	string	
purchase_date	string	
card_id	string	
merchant_id	string	
merchant_category_id	string	
item_category	string	
purchase_amount	string	
signature_provided	string	

2. transactions_2018

Summarized information about your dataset transactions_2018:

- This dataset has not been created in this project. Its origin project is **data credit card**

a) Status of the dataset transactions_2018

Characteristics of the dataset transactions_2018:

- Source project name: **data credit card**
- Type: **Uploaded Files**
- Connection: **dataiku-managed-storage**
- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **maxime.capron** on the 2023-04-19 06:41:55
- Last Modification by **maxime.capron** on the 2023-04-19 06:43:02

b) Related Recipes

The dataset transactions_2018 relates to the following recipes.

Successor Recipes

List of recipes with transactions_2018 as an input:

- compute_transactions_2017-18_stacked ([Stack](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
transaction_id	string	
authorized_flag	string	
purchase_date	string	
card_id	string	
merchant_id	string	
merchant_category_id	string	
item_category	string	
purchase_amount	string	
signature_provided	string	

3. transactions_2017-18_stacked

Summarized information about your dataset transactions_2017-18_stacked:

a) Status of the dataset transactions_2017-18_stacked

Characteristics of the dataset transactions_2017-18_stacked:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **yunting.lu** on the 2023-04-19 12:08:27
- Last Modification by **yunting.lu** on the 2023-04-19 12:08:27

b) Related Recipes

The dataset transactions_2017-18_stacked relates to the following recipes.

Parent Recipe

List of recipes with transactions_2017-18_stacked as an output:

- compute_transactions_2017-18_stacked ([Stack](#))

Successor Recipes

List of recipes with transactions_2017-18_stacked as an input:

- compute_transactions_cardholder_joined ([Join](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
transaction_id	string	
authorized_flag	string	
purchase_date	string	
card_id	string	
merchant_id	string	
merchant_category_id	string	
item_category	string	
purchase_amount	string	
signature_provided	string	

4. cardholder_info

Summarized information about your dataset cardholder_info:

- This dataset has not been created in this project. Its origin project is **data credit card**

a) Status of the dataset cardholder_info

Characteristics of the dataset cardholder_info:

- Source project name: **data credit card**
- Type: **Uploaded Files**
- Connection: **dataiku-managed-storage**

- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **maxime.capron** on the 2023-04-19 06:42:42
- Last Modification by **maxime.capron** on the 2023-04-19 06:42:58

b) Related Recipes

The dataset cardholder_info relates to the following recipes.

Successor Recipes

List of recipes with cardholder_info as an input:

- compute_cardholder_info_copy (*Sync*)

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
internal_card_mapping	string	
first_active_month	string	
reward_program	string	
latitude	string	
longitude	string	
fico_score	string	
age	string	

5. cardholder_info_copy

Summarized information about your dataset cardholder_info_copy:

a) Status of the dataset cardholder_info_copy

Characteristics of the dataset cardholder_info_copy:

- Type: **Snowflake**
- Connection: **managed-snowflake**

- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **yunting.lu** on the 2023-04-19 12:14:44
- Last Modification by **yunting.lu** on the 2023-04-19 12:14:44

b) Related Recipes

The dataset `cardholder_info_copy` relates to the following recipes.

Parent Recipe

List of recipes with `cardholder_info_copy` as an output:

- `compute_cardholder_info_copy` ([Sync](#))

Successor Recipes

List of recipes with `cardholder_info_copy` as an input:

- `compute_transactions_cardholder_joined` ([Join](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
<code>internal_card_mapping</code>	string	
<code>first_active_month</code>	string	
<code>reward_program</code>	string	
<code>latitude</code>	string	
<code>longitude</code>	string	
<code>fico_score</code>	string	
<code>age</code>	string	

6. merchant_info

Summarized information about your dataset `merchant_info`:

- This dataset has not been created in this project. Its origin project is **data credit card**

a) Status of the dataset merchant_info

Characteristics of the dataset merchant_info:

- Source project name: **data credit card**
- Type: **Uploaded Files**
- Connection: **dataiku-managed-storage**
- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **maxime.capron** on the 2023-04-19 06:42:37
- Last Modification by **maxime.capron** on the 2023-04-19 06:42:54

b) Related Recipes

The dataset merchant_info relates to the following recipes.

Successor Recipes

List of recipes with merchant_info as an input:

- compute_merchant_info_copy (*Sync*)

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
merchant_id	string	
merchant_category_id	string	
subsector_description	string	
latitude	string	
longitude	string	

7. merchant_info_copy

Summarized information about your dataset merchant_info_copy:

a) Status of the dataset merchant_info_copy

Characteristics of the dataset merchant_info_copy:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **yunting.lu** on the 2023-04-19 12:14:04
- Last Modification by **yunting.lu** on the 2023-04-19 12:14:04

b) Related Recipes

The dataset merchant_info_copy relates to the following recipes.

Parent Recipe

List of recipes with merchant_info_copy as an output:

- compute_merchant_info_copy ([Sync](#))

Successor Recipes

List of recipes with merchant_info_copy as an input:

- compute_transactions_cardholder_joined ([Join](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
merchant_id	string	
merchant_category_id	string	
subsector_description	string	
latitude	string	
longitude	string	

8. transactions_cardholder_joined

Summarized information about your dataset transactions_cardholder_joined:

a) Status of the dataset transactions_cardholder_joined

Characteristics of the dataset transactions_cardholder_joined:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **347,928**
- Created by **yunting.lu** on the 2023-04-19 12:17:24
- Last Modification by **yunting.lu** on the 2023-04-19 13:00:44

b) Related Recipes

The dataset transactions_cardholder_joined relates to the following recipes.

Parent Recipe

List of recipes with transactions_cardholder_joined as an output:

- compute_transactions_cardholder_joined ([Join](#))

Successor Recipes

List of recipes with transactions_cardholder_joined as an input:

- compute_transactions_joined_prepared ([Prepare](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
transaction_id	string	
authorized_flag	string	
purchase_date	string	
card_id	string	

merchant_id	string	
merchant_category_id	string	
item_category	string	
purchase_amount	string	
signature_provided	string	
card_first_active_month	string	
card_reward_program	string	
card_latitude	string	
card_longitude	string	
card_fico_score	string	
card_age	string	
merchant_merchant_category_id	string	
merchant_subsector_description	string	
merchant_latitude	string	
merchant_longitude	string	

9. transactions_joined_prepared

Summarized information about your dataset transactions_joined_prepared:

a) Status of the dataset transactions_joined_prepared

Characteristics of the dataset transactions_joined_prepared:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **347,928**
- Created by **yunting.lu** on the 2023-04-19 12:33:07
- Last Modification by **yunting.lu** on the 2023-04-19 13:06:15

b) Related Recipes

The dataset `transactions_joined_prepared` relates to the following recipes.

Parent Recipe

List of recipes with `transactions_joined_prepared` as an output:

- `compute_transactions_joined_prepared` ([Prepare](#))

Successor Recipes

List of recipes with `transactions_joined_prepared` as an input:

- `compute_transactions_joined_prepared_by_merchant_id` ([Group](#))
- `split_transactions_joined_prepared` ([Split](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
<code>transaction_id</code>	bigint	
<code>authorized_flag</code>	bigint	
<code>purchase_date</code>	string	
<code>purchase_DayOfWeek</code>	bigint	
<code>weekend</code>	boolean	
<code>card_id</code>	string	
<code>merchant_id</code>	string	
<code>merchant_category_id</code>	bigint	
<code>item_category</code>	string	
<code>purchase_amount</code>	double	
<code>signature_provided</code>	bigint	
<code>card_first_active_month</code>	string	
<code>since_purchase_date_years</code>	bigint	
<code>card_reward_program</code>	string	

card_latitude	double	
card_longitude	double	
card_fico_score	bigint	
card_age	bigint	
merchant_merchant_category_id	bigint	
merchant_subsector_description	string	
merchant_latitude	double	
merchant_longitude	double	
card_geopoint	string	
card_state	string	
merchant_geopoint	string	
distance_betw_geopoint	double	
merchant_state	string	

10. transactions_joined_prepared_by_merchant_id

Summarized information about your dataset transactions_joined_prepared_by_merchant_id:

a) Status of the dataset transactions_joined_prepared_by_merchant_id

Characteristics of the dataset transactions_joined_prepared_by_merchant_id:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **50,339**
- Created by **yunting.lu** on the 2023-04-19 13:36:00
- Last Modification by **yunting.lu** on the 2023-04-19 14:49:02

b) Related Recipes

The dataset transactions_joined_prepared_by_merchant_id relates to the following recipes.

Parent Recipe

List of recipes with `transactions_joined_prepared_by_merchant_id` as an output:

- `compute_transactions_joined_prepared_by_merchant_id` ([Group](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
merchant_id	string	
purchase_amount_avg	double	
merchant_geopoint_distinct	bigint	
fraud_sum	double	
count	bigint	

11. data_labeled

Summarized information about your dataset `data_labeled`:

a) Status of the dataset `data_labeled`

Characteristics of the dataset `data_labeled`:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **201,941**
- Created by **yunting.lu** on the 2023-04-19 13:49:18
- Last Modification by **yunting.lu** on the 2023-04-19 13:49:43

b) Related Recipes

The dataset `data_labeled` relates to the following recipes.

Parent Recipe

List of recipes with data_labeled as an output:

- split_transactions_joined_prepared ([Split](#))

Successor Recipes

List of recipes with data_labeled as an input:

- train_Predict_authorized_flag__binary_ ([Prediction Training](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
transaction_id	bigint	
authorized_flag	bigint	
purchase_date	string	
purchase_DayOfWeek	bigint	
weekend	boolean	
card_id	string	
merchant_id	string	
merchant_category_id	bigint	
item_category	string	
purchase_amount	double	
signature_provided	bigint	
card_first_active_month	string	
since_purchase_date_years	bigint	
card_reward_program	string	
card_latitude	double	
card_longitude	double	
card_fico_score	bigint	

card_age	bigint	
merchant_merchant_category_id	bigint	
merchant_subsector_description	string	
merchant_latitude	double	
merchant_longitude	double	
card_geopoint	string	
card_state	string	
merchant_geopoint	string	
distance_betw_geopoint	double	
merchant_state	string	

12. data_unlabeled

Summarized information about your dataset data_unlabeled:

a) Status of the dataset data_unlabeled

Characteristics of the dataset data_unlabeled:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **yunting.lu** on the 2023-04-19 13:49:27
- Last Modification by **yunting.lu** on the 2023-04-19 13:49:43

b) Related Recipes

The dataset data_unlabeled relates to the following recipes.

Parent Recipe

List of recipes with data_unlabeled as an output:

- split_transactions_joined_prepared ([Split](#))

Successor Recipes

List of recipes with data_unlabeled as an input:

- score_data_unlabeled (*Prediction Scoring*)

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
transaction_id	bigint	
authorized_flag	bigint	
purchase_date	string	
purchase_DayOfWeek	bigint	
weekend	boolean	
card_id	string	
merchant_id	string	
merchant_category_id	bigint	
item_category	string	
purchase_amount	double	
signature_provided	bigint	
card_first_active_month	string	
since_purchase_date_years	bigint	
card_reward_program	string	
card_latitude	double	
card_longitude	double	
card_fico_score	bigint	
card_age	bigint	
merchant_merchant_category_id	bigint	
merchant_subsector_description	string	
merchant_latitude	double	

merchant_longitude	double	
card_geopoint	string	
card_state	string	
merchant_geopoint	string	
distance_betw_geopoint	double	
merchant_state	string	

13. data_unlabeled_scored

Summarized information about your dataset data_unlabeled_scored:

a) Status of the dataset data_unlabeled_scored

Characteristics of the dataset data_unlabeled_scored:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **145,987**
- Created by **yunting.lu** on the 2023-04-19 14:39:18
- Last Modification by **yunting.lu** on the 2023-04-19 14:39:18

b) Related Recipes

The dataset data_unlabeled_scored relates to the following recipes.

Parent Recipe

List of recipes with data_unlabeled_scored as an output:

- score_data_unlabeled ([Prediction Scoring](#))

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
transaction_id	bigint	

authorized_flag	bigint	
purchase_date	date	
purchase_DayOfWeek	bigint	
weekend	boolean	
card_id	string	
merchant_id	string	
merchant_category_id	bigint	
item_category	string	
purchase_amount	double	
signature_provided	bigint	
card_first_active_month	string	
since_purchase_date_years	bigint	
card_reward_program	string	
card_latitude	double	
card_longitude	double	
card_fico_score	bigint	
card_age	bigint	
merchant_merchant_category_id	bigint	
merchant_subsector_description	string	
merchant_latitude	double	
merchant_longitude	double	
card_geopoint	string	
card_state	string	
merchant_geopoint	string	
distance_betw_geopoint	double	
merchant_state	string	
proba_0	double	

proba_1	double	
prediction	string	

14. transaction_merchant_joined

Summarized information about your dataset transaction_merchant_joined:

a) Status of the dataset transaction_merchant_joined

Characteristics of the dataset transaction_merchant_joined:

- Type: **Snowflake**
- Connection: **managed-snowflake**
- Total Size: **Not computed**
- Record Count: **Not computed**
- Created by **yunting.lu** on the 2023-04-19 12:21:24
- Last Modification by **yunting.lu** on the 2023-04-19 12:26:04

b) Related Recipes

The dataset transaction_merchant_joined relates to the following recipes.

c) Schema

Schema details of the dataset.

Column Name	Column Type	Description
merchant_id	string	
merchant_category_id	string	
subsector_description	string	
latitude	string	
longitude	string	

IV. Recipes

List all the recipes in the flow.

1. **compute_transactions_2017-18_stacked**

Summarized information about the recipe compute_transactions_2017-18_stacked.

a) **Status**

Characteristics of the recipe compute_transactions_2017-18_stacked:

- Type: **Stack**
- Created by **yunting.lu** on the 2023-04-19 12:08:27
- Last Modification by **yunting.lu** on the 2023-04-19 12:12:44

b) **Inputs / Outputs**

List of the inputs of the recipe:

- Dataset transactions_2017 (*Uploaded Files*)
- Dataset transactions_2018 (*Uploaded Files*)

List of the outputs of the recipe:

- Dataset transactions_2017-18_stacked (*Snowflake*)

Stacking mode: Union of input schemas

2. **compute_cardholder_info_copy**

Summarized information about the recipe compute_cardholder_info_copy.

a) **Status**

Characteristics of the recipe compute_cardholder_info_copy:

- Type: **Sync**

- Created by **yunting.lu** on the 2023-04-19 12:14:44
- Last Modification by **yunting.lu** on the 2023-04-19 12:14:46

b) Inputs / Outputs

List of the inputs of the recipe:

- Dataset cardholder_info ([Uploaded Files](#))

List of the outputs of the recipe:

- Dataset cardholder_info_copy ([Snowflake](#))

3. compute_merchant_info_copy

Summarized information about the recipe compute_merchant_info_copy.

a) Status

Characteristics of the recipe compute_merchant_info_copy:

- Type: **Sync**
- Created by **yunting.lu** on the 2023-04-19 12:14:04
- Last Modification by **yunting.lu** on the 2023-04-19 12:14:18

b) Inputs / Outputs

List of the inputs of the recipe:

- Dataset merchant_info ([Uploaded Files](#))

List of the outputs of the recipe:

- Dataset merchant_info_copy ([Snowflake](#))

4. compute_transactions_cardholder_joined

Summarized information about the recipe compute_transactions_cardholder_joined.

a) Status

Characteristics of the recipe compute_transactions_cardholder_joined:

- Type: **Join**
- Created by **yunting.lu** on the 2023-04-19 12:17:24
- Last Modification by **yunting.lu** on the 2023-04-19 13:00:51

b) Inputs / Outputs

List of the inputs of the recipe:

- Dataset transactions_2017-18_stacked (*Snowflake*)
- Dataset cardholder_info_copy (*Snowflake*)
- Dataset merchant_info_copy (*Snowflake*)

List of the outputs of the recipe:

- Dataset transactions_cardholder_joined (*Snowflake*)

c) Join

Left transactions_2017-18_stacked - cardholder_info_copy And

Left input	Condition	Right input
card_id	=	internal_card_mapping

Left cardholder_info_copy - merchant_info_copy And

Left input	Condition	Right input
latitude	=	latitude

longitude	=	longitude
-----------	---	-----------

5. compute_transactions_joined_prepared

Summarized information about the recipe compute_transactions_joined_prepared.

a) Status

Characteristics of the recipe compute_transactions_joined_prepared:

- Type: **Prepare**
- Created by **yunting.lu** on the 2023-04-19 12:33:07
- Last Modification by **yunting.lu** on the 2023-04-19 13:06:17

b) Inputs / Outputs

List of the inputs of the recipe:

- Dataset transactions_cardholder_joined ([Snowflake](#))

List of the outputs of the recipe:

- Dataset transactions_joined_prepared ([Snowflake](#))

c) Prepare Steps

Type	Comment
DateParser	
DateComponentsExtractor	
VisualIfRule	
DateDifference	
GeoPointCreator	
GeoPointCreator	
CityLevelReverseGeocoder	
CityLevelReverseGeocoder	
ColumnsSelector	
GeoDistanceProcessor	

6. compute_transactions_joined_prepared_by_merchant_id

Summarized information about the recipe

compute_transactions_joined_prepared_by_merchant_id.

a) Status

Characteristics of the recipe compute_transactions_joined_prepared_by_merchant_id:

- Type: **Group**
- Created by **yunting.lu** on the 2023-04-19 13:36:00
- Last Modification by **yunting.lu** on the 2023-04-19 14:49:04

b) Inputs / Outputs

List of the inputs of the recipe:

- Dataset transactions_joined_prepared ([Snowflake](#))

List of the outputs of the recipe:

- Dataset transactions_joined_prepared_by_merchant_id ([Snowflake](#))

Group keys: merchant_id

7. split_transactions_joined_prepared

Summarized information about the recipe split_transactions_joined_prepared.

a) Status

Characteristics of the recipe split_transactions_joined_prepared:

- Type: **Split**
- Created by **yunting.lu** on the 2023-04-19 13:49:30
- Last Modification by **yunting.lu** on the 2023-04-19 13:50:58

b) Inputs / Outputs

List of the inputs of the recipe:

- Dataset transactions_joined_prepared ([Snowflake](#))

List of the outputs of the recipe:

- Dataset data_labeled ([Snowflake](#))
- Dataset data_unlabeled ([Snowflake](#))

Split mode: Specific filter for each output dataset

8. train_Predict_authorized_flag__binary__

Summarized information about the recipe train_Predict_authorized_flag__binary__.

a) Status

Characteristics of the recipe train_Predict_authorized_flag__binary_:

- Type: **Prediction Training**
- Created by **yunting.lu** on the 2023-04-19 14:38:48
- Last Modification by **yunting.lu** on the 2023-04-19 14:38:48

b) Inputs / Outputs

List of the inputs of the recipe:

- Dataset data_labeled ([Snowflake](#))

List of the outputs of the recipe:

- Saved Model Predict authorized_flag (binary) ([Random forest \(Random Forest\) - v1](#))

9. score_data_unlabeled

Summarized information about the recipe score_data_unlabeled.

a) Status

Characteristics of the recipe score_data_unlabeled:

- Type: **Prediction Scoring**
- Created by **yunting.lu** on the 2023-04-19 14:39:18
- Last Modification by **yunting.lu** on the 2023-04-19 14:39:30

b) Inputs / Outputs

List of the inputs of the recipe:

- Dataset data_unlabeled ([Snowflake](#))
- Saved Model Predict authorized_flag (binary) ([Random forest \(Random Forest\) - v1](#))

List of the outputs of the recipe:

- Dataset data_unlabeled_scored ([Snowflake](#))

V. Saved Models

List all the saved models in the flow.

1. Predict authorized_flag (binary)

Summarized information about the saved model Predict authorized_flag (binary):.

a) Status

Model id: **kLxujjCN**

Active version: **Random forest (Random Forest) - v1**

b) Related Recipes

List of the recipes related to the saved model.

Parent Recipe

Recipe with Predict authorized_flag (binary) as an output:

- train_Predict_authorized_flag__binary_ ([Prediction Training](#))

Successor Recipes

List of recipes with Predict authorized_flag (binary) as an input:

- score_data_unlabeled ([Prediction Scoring](#))

VI. Deployment and Monitoring

A. Implementation Details

- The flow can be found here: <https://dss-44270426-726225ce-dku.eu-west-3.app.dataiku.io/projects/YUNTINGLU/>
- The name of the generated file is: Dataiku Flow Documentation - YUNTINGLU.docx

B. Version Control

- The flow was executed with the following version of DSS: 11.4.1