



# **Suppliers Onboarding process**

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# Agenda

Introduction

Key Facts of Input / Output Data

Changes made to the input data

Potential changes to the input data

Conclusion

# Introduction

An e-commerce shop would like to onboard new suppliers efficiently. Integrate product data from suppliers in various formats and styles into the pre-defined data structure of their e-commerce shop application.

## Primary goals

Transform the supplier data so that it could be directly loaded into the target dataset without any other changes.

# Key Facts of Input / Output Data

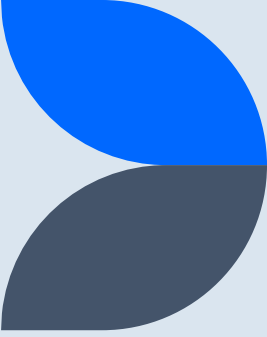
## Input data

- JSON file with 21906 rows and 9 columns
- One ID column
- Five columns describing Make, Model and Type of the vehicle
- Two column for Attributes. Key => Values pairs.
- One unique identity column

## Output data

- ✓ Excel file with 18 columns
- ✓ One group (3 columns): Make, Model, Model variant
- ✓ Attributes group (15 columns)

# Data transformation pipeline



# Changes made to the input data

## Pre-processing

1. Split to two dataset:
  - ✓ One with columns make, model and type  
**(1153 rows x 5 columns)**
  - ✓ Second one: using pivot to reshape the given data based on attributes  
**(1153 rows x 19 column)**
2. Merge two data sets into one:  
**(1153 rows x 24 columns)**

## Normalization

- ✓ Map the pre-processed data with the target data **(11 out of 18 columns)**  
  
Normalize the attributes values for color, car\_type, condition (using translation) and fuel\_consumption\_unit.
- ✓ For translation we use Deep Translator tool

## Integration

Transform the Supplier Data into a new dataset that have the same data schema as Target Data **18 columns**

# Potential changes to the input data

**Auto populate values from GEO API's, city as input, output values:**

- Currency
- Country
- Zip

**Example:**

<https://github.com/DenisCarriere/geocoder>

**Not mapped values, need more info:**

- drive
- mileage\_unit
- price\_on\_request
- type

**Example:**

A car in Switzerland can have right hand drive and miles as mileage unit.

# Summary

Valid JSON needs to be provided. Validation test before delivery.

Check for missing attributes. Vehicle with ID = 824 have 18 attributes instead of 19.

More info needed for fields like:

- drive
- mileage\_unit
- price\_on\_request
- type





# Thank you

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GitHub code:

<https://github.com/igorlevectarov/Onedot>