# **BEFD** Project

# Food Demand Forecasting

### The business problem

A meal delivery company operates in multiple cities. They have various fulfillment centers in these cities for dispatching meal orders to their customers. We need to provide these centers the demand forecasting for upcoming weeks so that these centers will plan the stock of raw materials accordingly.

#### **Task**

Predict the demand for the next 10 weeks!

## Data

- Fulfilment center data
- Meal info data
- Sales historical data

## Fulfilment centers

center_id	city_code	region_code	center_type	op_area
11	679	56	TYPE_A	3.7
13	590	56	TYPE_B	6.7
124	590	56	TYPE_C	4.0
66	648	34	TYPE_A	4.1
94	632	34	TYPE_C	3.6
64	553	77	TYPE_A	4.4

# Meal info

meal_id	category	cuisine
1885	Beverages	Thai
1993	Beverages	Thai
2539	Beverages	Thai
1248	Beverages	Indian
2631	Beverages	Indian
1311	Extras	Thai

# Sales data

id	week	center_id	meal_id	checkout_price
1379560	1	55	1885	136.83
1466964	1	55	1993	136.83
1346989	1	55	2539	134.86
1338232	1	55	2139	339.50
1448490	1	55	2631	243.50
1270037	1	55	1248	251.23

# Sales data

base_price	num_orders
152.29	177
135.83	270
135.86	189
437.53	54
242.50	40
252.23	28
	152.29 135.83 135.86 437.53 242.50