

Dataset requirements for Aderro ML usecase

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1.ML usecase and corresponding Dataset

As per our decision and previous documentation demand we need to develop models which can give predictions for skips as well as vehicles based on certain factors like area, particular period of time and type demands using machine learning solutions.

1.1 Dataset required for skips demand forecasting

We want to predict the skips demands based on the following parameters

- Demand in a particular Region / Area
- Demand during a particular period of year
- Demand for any skip type

We can divide the problem as 2 cases:

- We can prepare a model which can predict the demand for a particular skip type in future.
 - Dataset consist:
 - 1st column: Date
 - 2nd column: One Type of skip
 - 3rd column: Another Type of skip and so on

	A	B	C	D	E
1	Date	Mini skip	Medium skip	Large skip	
2	1959-01-01	35	55	43	
3	1959-01-02	32	47	41	
4	1959-01-03	30	45	52	
5	1959-01-04	31	37	34	
6	1959-01-05	44	50	53	
7	1959-01-06	29	43	39	
8	1959-01-07	45	41	32	
9	1959-01-08	43	52	37	
10	1959-01-09	38	34	43	
11	1959-01-10	27	53	39	
12	1959-01-11	38	39	35	
13	1959-01-12	33	32	35	
14	1959-01-13	55	37	32	
15	1959-01-14	47	43	30	
16	1959-01-15	45	39	31	
17	1959-01-16	37	35	44	
18	1959-01-17	50	35	39	
19	1959-01-18	43	32	35	
20	1959-01-19	41	30	35	
21	1959-01-20	52	31	32	
22	1959-01-21	34	44	30	
23	1959-01-22	53	29	31	
24	1959-01-23	39	45	44	
25	1959-01-24	32	43	29	
26	1959-01-25	37	38	45	
27	1959-01-26	43	27	43	
28	1959-01-27	39	38	38	
29	1959-01-28	35	33	27	

- We can prepare another model which can predict which area is having how much demand of skips
 - Dataset consist:
 - 1st column: Date
 - 2nd column: 1st Area with skips demands
 - 3rd column: Another Area with skips demands and so on

	A	B	C	D	
1	Date	Area1 skip demand	Area2 skip demand	Area3 skip demand	
2	1981-01-01	35	27	45	
3	1981-01-02	32	38	43	
4	1981-01-03	30	33	38	
5	1981-01-04	31	55	27	
6	1981-01-05	44	47	38	
7	1981-01-06	29	45	33	
8	1981-01-07	45	37	55	
9	1981-01-08	43	50	47	
10	1981-01-09	38	43	45	
11	1981-01-10	27	41	37	
12	1981-01-11	38	52	50	
13	1981-01-12	33	34	43	
14	1981-01-13	55	53	41	
15	1981-01-14	47	39	52	
16	1981-01-15	45	32	34	
17	1981-01-16	37	37	53	
18	1981-01-17	50	43	39	
19	1981-01-18	43	39	35	
20	1981-01-19	41	35	44	
21	1981-01-20	52	44	38	
22	1981-01-21	34	38	24	
23	1981-01-22	53	24	27	
24	1981-01-23	39	23	38	
25	1981-01-24	32	31	33	
26	1981-01-25	37	44	55	
27	1981-01-26	43	38	47	
28	1981-01-27	39	50	45	
29	1981-01-28	35	38	37	

1.2 Dataset required for Vehicles demand forecasting

Right now for vehicles we need to analyse more so we have decided to start with skips first.