

Working with the Dataset

Understanding the Dataset

| | |
|--------------|--|
| Team ID | PNT2022TMID21488 |
| Project Name | Retail Store Stock Inventory Analytics |

Dataset:

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U |
|----|------------|-------|---------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | data | venda | estoque | preco | | | | | | | | | | | | | | | | | |
| 2 | 01-01-2014 | 0 | 4972 | 1.29 | | | | | | | | | | | | | | | | | |
| 3 | 02-01-2014 | 70 | 4902 | 1.29 | | | | | | | | | | | | | | | | | |
| 4 | 03-01-2014 | 59 | 4843 | 1.29 | | | | | | | | | | | | | | | | | |
| 5 | 04-01-2014 | 93 | 4750 | 1.29 | | | | | | | | | | | | | | | | | |
| 6 | 05-01-2014 | 96 | 4654 | 1.29 | | | | | | | | | | | | | | | | | |
| 7 | 06-01-2014 | 145 | 4509 | 1.29 | | | | | | | | | | | | | | | | | |
| 8 | 07-01-2014 | 179 | 4329 | 1.29 | | | | | | | | | | | | | | | | | |
| 9 | 08-01-2014 | 321 | 4104 | 1.29 | | | | | | | | | | | | | | | | | |
| 10 | 09-01-2014 | 125 | 4459 | 1.09 | | | | | | | | | | | | | | | | | |
| 11 | 10-01-2014 | 88 | 5043 | 1.09 | | | | | | | | | | | | | | | | | |
| 12 | 11-01-2014 | 188 | 5239 | 1.09 | | | | | | | | | | | | | | | | | |
| 13 | 12-01-2014 | 121 | 5118 | 1.09 | | | | | | | | | | | | | | | | | |
| 14 | 13-01-2014 | 134 | 4984 | 1.09 | | | | | | | | | | | | | | | | | |
| 15 | 14-01-2014 | 80 | 4904 | 1.09 | | | | | | | | | | | | | | | | | |
| 16 | 15-01-2014 | 82 | 4822 | 1.09 | | | | | | | | | | | | | | | | | |
| 17 | 16-01-2014 | 94 | 4728 | 1.19 | | | | | | | | | | | | | | | | | |
| 18 | 18-01-2014 | 159 | 4464 | 1.19 | | | | | | | | | | | | | | | | | |
| 19 | 19-01-2014 | 199 | 4265 | 1.19 | | | | | | | | | | | | | | | | | |
| 20 | 20-01-2014 | 104 | 4161 | 1.19 | | | | | | | | | | | | | | | | | |
| 21 | 21-01-2014 | 70 | 4091 | 1.19 | | | | | | | | | | | | | | | | | |
| 22 | 22-01-2014 | 127 | 3964 | 1.09 | | | | | | | | | | | | | | | | | |
| 23 | 23-01-2014 | 96 | 3868 | 1.09 | | | | | | | | | | | | | | | | | |
| 24 | 24-01-2014 | 75 | 3793 | 1.09 | | | | | | | | | | | | | | | | | |
| 25 | 25-01-2014 | 198 | 3595 | 1.09 | | | | | | | | | | | | | | | | | |
| 26 | 26-01-2014 | 168 | 3427 | 1.09 | | | | | | | | | | | | | | | | | |
| 27 | 27-01-2014 | 125 | 3302 | 1.09 | | | | | | | | | | | | | | | | | |

Description:

This dataset contains a lot of historical sales data of a Brazilian top retailer. Basic Questions of every retailer: How much inventory should I carry? Too much inventory means working capital costs, operational costs and a complex operation whereas lack of inventory leads to lost sales, unhappy customers and a damaged brand. This is why short-term forecasting is so important in the retail and consumer goods industry.

The dataset is in Portuguese language. Here, data means **date**, venda means **sales**, estoque means **stock** and preco means **price**. The dataset contains 938 rows. The dataset consists of historical sales data ranging from 01-01-2014 to 31-07-2016.