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About

This App is an end-to-end product that enables the Rosemann pharmaceutical company to view predictions on sales across their stores and 6 weeks ahead of time and the trends expected.

`st.cache` is deprecated. Please use one of Streamlit's new caching commands, `st.cache_data` or `st.cache_resource`. Based on this function's return value of type `bool`, we recommend using `st.cache_data`.

More information [in our docs](#).

Data description

Most of the data fields are easy to understand, but just to highlight some of the features present: *Store*, *Date*, *Sales*, *Customers*, *Open*, *State Holiday*, *School Holiday*, *Store Type*, *Assortment*, *Competition* and *Promotion*. The *Store Type*, *Assortment*, *Competition* and *Promotion* features are store tailored. The *Sales*, *Customers*, *Open*, *State Holiday* and *School Holiday* features vary across the stores with days.

Sample stores data

| | Store | StoreType | Assortment | CompetitionDistance | CompetitionOpenSinceMonth | CompetitionOpen |
|---|-------|-----------|------------|---------------------|---------------------------|-----------------|
| 0 | 1 | c | a | 1,270 | 9 | |
| 1 | 2 | a | a | 570 | 11 | |
| 2 | 3 | a | a | 14,130 | 12 | |
| 3 | 4 | c | c | 620 | 9 | |
| 4 | 5 | a | a | 29,910 | 4 | |
| 5 | 6 | a | a | 310 | 12 | |
| 6 | 7 | a | c | 24,000 | 4 | |
| 7 | 8 | a | a | 7,520 | 10 | |
| 8 | 9 | a | c | 2,030 | 8 | |
| 9 | 10 | a | a | 3,160 | 9 | |
| | | | | | | |

Sample historical data including Sales and Customers

| | Store | DayOfWeek | Date | Sales | Customers | Open | Promo | StateHoliday | SchoolHoliday |
|---------|-------|-----------|------------|--------|-----------|------|-------|--------------|---------------|
| 965,039 | 1,058 | 7 | 2013-05-12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 398,114 | 437 | 6 | 2013-10-19 | 8,241 | 997 | 1 | 0 | 0 | 0 |
| 485,999 | 533 | 7 | 2014-03-23 | 0 | 0 | 0 | 0 | 0 | 0 |
| 820,560 | 900 | 2 | 2013-01-08 | 6,773 | 618 | 1 | 1 | 0 | 0 |
| 534,616 | 586 | 3 | 2013-04-10 | 14,168 | 2,180 | 1 | 1 | 0 | 0 |
| 837,670 | 920 | 3 | 2014-03-26 | 4,154 | 479 | 1 | 0 | 0 | 0 |
| 66,144 | 73 | 4 | 2014-08-21 | 5,470 | 552 | 1 | 1 | 0 | 1 |
| 781,184 | 857 | 6 | 2013-06-15 | 7,454 | 952 | 1 | 0 | 0 | 0 |
| 916,009 | 1,005 | 2 | 2014-12-09 | 6,785 | 1,026 | 1 | 0 | 0 | 0 |
| 558,493 | 613 | 3 | 2015-01-07 | 6,788 | 962 | 1 | 1 | 0 | 0 |
| | | | | | | | | | |

Sample training data containing the input features

| Store | DayOfWeek | Date | Sales | Customers | Open | Promo | StateHoliday | SchoolHoliday | Year |
|-------|-----------|------------|-------|-----------|------|-------|--------------|---------------|-------|
| 346 | 2 | 2014-04-29 | 7,146 | 629 | 1 | 1 | 0 | 0 | 2,014 |
| 485 | 2 | 2013-11-12 | 3,994 | 374 | 1 | 0 | 0 | 0 | 2,013 |
| 436 | 5 | 2014-11-14 | 5,541 | 615 | 1 | 1 | 0 | 0 | 2,014 |
| 1,089 | 6 | 2013-10-19 | 8,996 | 942 | 1 | 0 | 0 | 0 | 2,013 |
| 258 | 2 | 2014-05-27 | 4,857 | 424 | 1 | 0 | 0 | 0 | 2,014 |
| 95 | 1 | 2014-05-26 | 7,845 | 908 | 1 | 0 | 0 | 0 | 2,014 |
| 757 | 5 | 2013-11-08 | 6,283 | 543 | 1 | 1 | 0 | 0 | 2,013 |
| 902 | 1 | 2013-05-27 | 4,955 | 625 | 1 | 1 | 0 | 1 | 2,013 |
| 306 | 7 | 2014-01-19 | 0 | 0 | 0 | 0 | 0 | 0 | 2,014 |
| 929 | 7 | 2015-03-01 | 0 | 0 | 0 | 0 | 0 | 0 | 2,015 |
| | | | | | | | | | |

