* הערה : על מנת לבדוק את השפעת הביצועים של הפיצר כמות מבקרים שנה שעברה הוכן אותו דאטה עבור train and test ולכן הגדול הדאטה שווה לשניהם.
* אחרת, כאשר אין הפיצר כמות המבקרים של שנה שעברה אז יש יותר רשומות ( כלומר אין ערכי NAN כלומר גודל הדאטה יותר רחב בערך 300-600 רשומות יותר)

En Gedi:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | MLR without last year visits: | MLR with last year visits: | NN with last year visits: | NN without last year visits: |
| Coeff -MLR  LIME - NN | |  |  | | --- | --- | | Temperature | -697.17588 | | IsVacation | -164.84122 | | is\_weekend | -90.95171 | | pm10 | 383.59330 | | IsHoliday | 523.19055 | | |  |  | | --- | --- | | Temperature | -581.86869 | | IsVacation | -119.93818 | | is\_weekend | -78.52285 | | pm10 | 463.86356 | | IsHoliday | 535.19772 | | last\_year\_visitors | 634.38849 | | |  |  | | --- | --- | | sHoliday | 540.782271 | | IsVacation | -143.572301 | | Temperature | -96.045518 | | is weekend | 29.015857 | | last year visitors | 22.244141 | | pm10 | -17.610006 | | |  |  | | --- | --- | | IsHoliday | 405.121145 | | IsVacation | -214.757101 | | is weekend | -105.950955 | | Temperature | -87.154307 | | pm10 | -21.121490 | |
| Size | 1002 | | | |
| Train rmse | 681.3188067377151 | 672.0952430773729 | 621.9716797769046 | 677.1284675783805 |
| Train std | 719.3264043576573 | | | |
| Test rmse | 628.7267618560822 | 619.6994520075506 | 600.9808580822113 | 623.8877939512751 |
| Test std | 690.7782847249603 | | | |

The Masada:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | MLR without last year visits: | MLR with last year visits: | NN with last year visits: | NN without last year visits: |
| Coeff | |  |  | | --- | --- | | Temperature | -698.62463 | | IsVacation | -555.90523 | | is\_weekend | -131.05562 | | IsHoliday | 143.60008 | | pm10 | 194.51282 | | |  |  | | --- | --- | | Temperature | -488.41952 | | IsVacation | -435.53464 | | is\_weekend | -127.55243 | | pm10 | 64.07809 | | IsHoliday | 177.73131 | | last\_year\_visitors | 1491.36468 | | |  | | --- | |  | | last year visitors | 536.982661 | | IsVacation | -401.849055 | | is weekend | -131.637240 | | pm10 | -17.276055 | | IsHoliday | 14.321664 | | Temperature | -13.013883 | | |  |  | | --- | --- | | IsVacation | -711.661198 | | Temperature | 266.579701 | | is weekend | -161.256040 | | IsHoliday | -17.875883 | | pm10 | -14.120335 | |
| Size | 1011 | | | |
| Train rmse | 745.3076673375676 | 691.0328710086147 | 667.4085167217634 | 721.7073400368621 |
| Train std | 809.1665472718446 | | | |
| Test rmse | 688.6107706606393 | 642.6634061847436 | 621.9546170114946 | 682.5943092330831 |
| Test std | 782.933047432456 | | | |

Caesarea:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | MLR without last year visits: | MLR with last year visits: | NN with last year visits: | NN without last year visits: |
| Coeff | |  |  | | --- | --- | | pm10 | -250.18008 | | IsVacation | -197.43731 | | IsHoliday | 446.70013 | | Temperature | 787.79217 | | is\_weekend | 906.00186 | | |  |  | | --- | --- | | pm10 | -250.64010 | | IsVacation | -191.03262 | | last\_year\_visitors | 210.81424 | | IsHoliday | 447.92270 | | Temperature | 756.18431 | | is\_weekend | 912.27766 | | |  |  | | --- | --- | | is weekend | 957.220491 | | IsHoliday | 383.409154 | | Temperature | 217.423863 | | IsVacation | -124.115476 | | last year visitors | 81.186721 | | pm10 | 14.607072 | | |  |  | | --- | --- | | is weekend | 902.378907 | | IsHoliday | 313.517969 | | IsVacation | -140.292102 | | Temperature | 71.643270 | | pm10 | -10.028206 | |
| Size | 433 | | | |
| Train rmse | 634.0007270976848 | 632.8652189846074 | 619.9920359113404 | 630.4278013976079 |
| Train std | 780.967600162725 | | | |
| Test rmse | 642.3206346101499 | 646.2629337908642 | 649.6406020334791 | 650.7218599472664 |
| Test std | 793.901068849987 | | | |

Banias:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | MLR without last year visits: | MLR with last year visits: | NN with last year visits: | NN without last year visits: |
| Coeff | |  |  | | --- | --- | | IsVacation | -132.98733 | | pm10 | -48.23936 | | Temperature | 10.16272 | | is\_weekend | 179.46603 | | IsHoliday | 300.08791 | | |  |  | | --- | --- | | pm10 | -151.52970 | | IsVacation | -88.57879 | | Temperature | -58.05120 | | is\_weekend | 157.86990 | | IsHoliday | 334.74152 | | last\_year\_visitors | 930.88958 | | |  |  | | --- | --- | | IsHoliday | 290.873668 | | last year visitors | 279.776550 | | is weekend | 123.358785 | | IsVacation | -74.573932 | | Temperature | 65.887997 | | pm10 | 5.816395 | | |  |  | | --- | --- | | IsHoliday | 287.049469 | | is weekend | 158.529889 | | IsVacation | -121.901431 | | Temperature | 36.908068 | | pm10 | -1.132108 | |
| Size | 489 | | | |
| Train rmse | 672.2421383734916 | 651.3382599838604 | 657.3538012975282 | 677.2306425458918 |
| Train std | 685.817797847391 | | | |
| Test rmse | 538.310320824112 | 540.1539894993193 | 515.229493039464 | 525.208003825447 |
| Test std | 520.0167628773802 | | | |