multi-linear regression

G Venkat Bharadwaj

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getwd()

## [1] "C:/Users/bhara/Downloads"

setwd("C:/Users/bhara/Desktop/R Practice")  
#Predicting house prices for King-County area using multiple linear regression  
#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
#read the data into variable homedata  
homedata=read.csv("home\_data.csv")  
#display all data using summary  
summary(homedata)

## id date price   
## Min. :1.000e+06 20140623T000000: 142 Min. : 75000   
## 1st Qu.:2.123e+09 20140625T000000: 131 1st Qu.: 321950   
## Median :3.905e+09 20140626T000000: 131 Median : 450000   
## Mean :4.580e+09 20140708T000000: 127 Mean : 540088   
## 3rd Qu.:7.309e+09 20150427T000000: 126 3rd Qu.: 645000   
## Max. :9.900e+09 20150325T000000: 123 Max. :7700000   
## (Other) :20833   
## bedrooms bathrooms sqft\_living sqft\_lot   
## Min. : 0.000 Min. :0.000 Min. : 290 Min. : 520   
## 1st Qu.: 3.000 1st Qu.:1.750 1st Qu.: 1427 1st Qu.: 5040   
## Median : 3.000 Median :2.250 Median : 1910 Median : 7618   
## Mean : 3.371 Mean :2.115 Mean : 2080 Mean : 15107   
## 3rd Qu.: 4.000 3rd Qu.:2.500 3rd Qu.: 2550 3rd Qu.: 10688   
## Max. :33.000 Max. :8.000 Max. :13540 Max. :1651359   
##   
## floors waterfront view condition   
## Min. :1.000 Min. :0.000000 Min. :0.0000 Min. :1.000   
## 1st Qu.:1.000 1st Qu.:0.000000 1st Qu.:0.0000 1st Qu.:3.000   
## Median :1.500 Median :0.000000 Median :0.0000 Median :3.000   
## Mean :1.494 Mean :0.007542 Mean :0.2343 Mean :3.409   
## 3rd Qu.:2.000 3rd Qu.:0.000000 3rd Qu.:0.0000 3rd Qu.:4.000   
## Max. :3.500 Max. :1.000000 Max. :4.0000 Max. :5.000   
##   
## grade sqft\_above sqft\_basement yr\_built   
## Min. : 1.000 Min. : 290 Min. : 0.0 Min. :1900   
## 1st Qu.: 7.000 1st Qu.:1190 1st Qu.: 0.0 1st Qu.:1951   
## Median : 7.000 Median :1560 Median : 0.0 Median :1975   
## Mean : 7.657 Mean :1788 Mean : 291.5 Mean :1971   
## 3rd Qu.: 8.000 3rd Qu.:2210 3rd Qu.: 560.0 3rd Qu.:1997   
## Max. :13.000 Max. :9410 Max. :4820.0 Max. :2015   
##   
## yr\_renovated zipcode lat long   
## Min. : 0.0 Min. :98001 Min. :47.16 Min. :-122.5   
## 1st Qu.: 0.0 1st Qu.:98033 1st Qu.:47.47 1st Qu.:-122.3   
## Median : 0.0 Median :98065 Median :47.57 Median :-122.2   
## Mean : 84.4 Mean :98078 Mean :47.56 Mean :-122.2   
## 3rd Qu.: 0.0 3rd Qu.:98118 3rd Qu.:47.68 3rd Qu.:-122.1   
## Max. :2015.0 Max. :98199 Max. :47.78 Max. :-121.3   
##   
## sqft\_living15 sqft\_lot15   
## Min. : 399 Min. : 651   
## 1st Qu.:1490 1st Qu.: 5100   
## Median :1840 Median : 7620   
## Mean :1987 Mean : 12768   
## 3rd Qu.:2360 3rd Qu.: 10083   
## Max. :6210 Max. :871200   
##

dim(homedata)

## [1] 21613 21

str(homedata)

## 'data.frame': 21613 obs. of 21 variables:  
## $ id : num 7.13e+09 6.41e+09 5.63e+09 2.49e+09 1.95e+09 ...  
## $ date : Factor w/ 372 levels "20140502T000000",..: 165 221 291 221 284 11 57 252 340 306 ...  
## $ price : int 221900 538000 180000 604000 510000 1225000 257500 291850 229500 323000 ...  
## $ bedrooms : int 3 3 2 4 3 4 3 3 3 3 ...  
## $ bathrooms : num 1 2.25 1 3 2 4.5 2.25 1.5 1 2.5 ...  
## $ sqft\_living : int 1180 2570 770 1960 1680 5420 1715 1060 1780 1890 ...  
## $ sqft\_lot : int 5650 7242 10000 5000 8080 101930 6819 9711 7470 6560 ...  
## $ floors : num 1 2 1 1 1 1 2 1 1 2 ...  
## $ waterfront : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ view : int 0 0 0 0 0 0 0 0 0 0 ...  
## $ condition : int 3 3 3 5 3 3 3 3 3 3 ...  
## $ grade : int 7 7 6 7 8 11 7 7 7 7 ...  
## $ sqft\_above : int 1180 2170 770 1050 1680 3890 1715 1060 1050 1890 ...  
## $ sqft\_basement: int 0 400 0 910 0 1530 0 0 730 0 ...  
## $ yr\_built : int 1955 1951 1933 1965 1987 2001 1995 1963 1960 2003 ...  
## $ yr\_renovated : int 0 1991 0 0 0 0 0 0 0 0 ...  
## $ zipcode : int 98178 98125 98028 98136 98074 98053 98003 98198 98146 98038 ...  
## $ lat : num 47.5 47.7 47.7 47.5 47.6 ...  
## $ long : num -122 -122 -122 -122 -122 ...  
## $ sqft\_living15: int 1340 1690 2720 1360 1800 4760 2238 1650 1780 2390 ...  
## $ sqft\_lot15 : int 5650 7639 8062 5000 7503 101930 6819 9711 8113 7570 ...

names(homedata)

## [1] "id" "date" "price" "bedrooms"   
## [5] "bathrooms" "sqft\_living" "sqft\_lot" "floors"   
## [9] "waterfront" "view" "condition" "grade"   
## [13] "sqft\_above" "sqft\_basement" "yr\_built" "yr\_renovated"   
## [17] "zipcode" "lat" "long" "sqft\_living15"  
## [21] "sqft\_lot15"

#split the homedata into traindata and test data  
df=sample(1:nrow(homedata),0.7\*nrow(homedata))  
traindata=homedata[df,]  
testdata=homedata[-df,]  
  
#multiple linear regression  
modellm=lm(price~bedrooms+condition+sqft\_lot+sqft\_living+grade+zipcode+waterfront+yr\_built+lat+long,data = traindata)  
modellm

##   
## Call:  
## lm(formula = price ~ bedrooms + condition + sqft\_lot + sqft\_living +   
## grade + zipcode + waterfront + yr\_built + lat + long, data = traindata)  
##   
## Coefficients:  
## (Intercept) bedrooms condition sqft\_lot sqft\_living   
## 5.950e+05 -3.131e+04 2.571e+04 2.251e-02 2.037e+02   
## grade zipcode waterfront yr\_built lat   
## 1.126e+05 -5.015e+02 7.578e+05 -2.453e+03 5.857e+05   
## long   
## -2.032e+05

summary(modellm)

##   
## Call:  
## lm(formula = price ~ bedrooms + condition + sqft\_lot + sqft\_living +   
## grade + zipcode + waterfront + yr\_built + lat + long, data = traindata)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -1275803 -102999 -10533 80294 4399811   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 5.950e+05 3.390e+06 0.176 0.861   
## bedrooms -3.131e+04 2.202e+03 -14.219 <2e-16 \*\*\*  
## condition 2.571e+04 2.772e+03 9.274 <2e-16 \*\*\*  
## sqft\_lot 2.251e-02 4.162e-02 0.541 0.589   
## sqft\_living 2.037e+02 3.279e+00 62.124 <2e-16 \*\*\*  
## grade 1.126e+05 2.370e+03 47.529 <2e-16 \*\*\*  
## zipcode -5.015e+02 3.960e+01 -12.663 <2e-16 \*\*\*  
## waterfront 7.578e+05 1.951e+04 38.843 <2e-16 \*\*\*  
## yr\_built -2.453e+03 7.433e+01 -33.003 <2e-16 \*\*\*  
## lat 5.857e+05 1.285e+04 45.574 <2e-16 \*\*\*  
## long -2.032e+05 1.518e+04 -13.384 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 203800 on 15118 degrees of freedom  
## Multiple R-squared: 0.6901, Adjusted R-squared: 0.6899   
## F-statistic: 3366 on 10 and 15118 DF, p-value: < 2.2e-16

summary(modellm)$r.squared

## [1] 0.690079

#predict  
pred=predict(modellm, newdata =testdata)  
pred

## 1 9 11 19 22 24   
## 246305.772 389258.889 934772.789 351119.689 897793.749 144945.138   
## 27 32 38 40 41 53   
## 840860.418 326413.982 868910.637 577048.382 678957.830 486829.831   
## 56 61 62 64 65 66   
## 808544.473 550016.525 252315.324 428646.245 380062.985 758981.910   
## 68 69 75 82 86 88   
## 295448.901 154595.278 335505.923 200191.327 863972.299 726574.926   
## 94 95 105 108 111 112   
## 639432.137 639432.137 257683.266 281603.338 537097.711 480511.580   
## 115 116 121 124 125 126   
## 720233.907 1308402.422 765353.730 572718.784 873678.230 886705.035   
## 129 134 137 141 142 144   
## 692075.694 429028.202 344959.987 458816.947 719204.725 486806.627   
## 152 156 159 161 164 165   
## 392211.643 249260.619 208310.425 363979.011 530957.702 391943.707   
## 169 172 177 178 181 182   
## 810593.559 394584.872 340256.611 370446.815 229419.830 624934.573   
## 185 186 189 190 195 196   
## 886331.971 1211651.794 426797.674 655842.047 398163.214 304430.349   
## 197 200 205 207 209 212   
## 582872.821 230697.709 107789.758 629666.549 135302.793 364441.962   
## 216 228 230 234 241 242   
## 176990.848 266991.965 303087.735 151868.695 277895.853 192225.639   
## 246 247 248 249 252 255   
## 690163.730 1677336.844 136348.904 301327.158 758558.935 244047.337   
## 266 270 274 275 285 287   
## 259459.548 1538642.826 252176.514 334026.851 765273.602 567707.377   
## 293 297 306 308 310 311   
## 533842.106 134609.401 745817.019 550856.731 863841.445 764828.936   
## 314 317 321 324 326 332   
## 1273863.841 884459.986 806136.882 252318.103 284581.984 344103.277   
## 336 338 343 344 347 352   
## 189271.288 597971.511 785935.570 83844.813 79116.208 728738.134   
## 360 364 365 366 367 373   
## 705661.947 559523.106 772968.564 226053.841 685160.860 664556.079   
## 375 379 381 384 389 390   
## 248706.754 520696.569 370108.215 673737.482 456751.406 566539.744   
## 393 396 404 406 408 409   
## 483416.019 555818.949 331471.244 527594.492 135209.112 383552.900   
## 418 422 432 433 434 435   
## 631943.233 489609.369 1329338.931 892965.927 190054.278 699204.565   
## 439 444 451 455 456 458   
## 439545.014 64129.045 1292763.845 597947.164 911432.517 1371740.930   
## 460 475 478 486 487 490   
## 183152.764 812153.946 380060.762 479774.686 1333063.918 791778.656   
## 492 494 495 497 501 502   
## 320469.908 710418.412 457623.246 803189.073 724562.562 559110.207   
## 505 517 521 527 529 532   
## 359144.842 345752.352 189053.235 595199.548 378269.923 154919.987   
## 537 540 551 552 557 558   
## 439612.295 395293.308 610565.030 1394140.192 1348507.303 206651.087   
## 563 564 565 571 576 577   
## 834796.493 1119789.621 529131.242 160491.337 260533.003 227033.824   
## 579 580 584 585 586 587   
## 662353.301 157297.467 526956.163 219439.429 184247.609 779003.290   
## 589 592 598 600 601 607   
## 449619.120 202929.638 760583.707 943771.438 503626.505 441710.768   
## 610 615 617 621 627 636   
## 828468.655 203749.160 381135.407 306088.489 496885.166 316656.121   
## 639 642 648 649 657 658   
## 399260.303 355393.911 503784.509 115341.822 1876329.343 257119.920   
## 667 674 675 678 679 680   
## 394941.830 692591.156 449901.957 226770.581 568678.975 1200482.434   
## 682 684 690 695 698 704   
## 664568.625 468703.240 438567.150 811387.085 194279.279 521800.139   
## 711 712 720 722 724 733   
## 476397.773 266785.160 90758.501 552737.466 555366.713 555222.068   
## 735 736 737 741 742 765   
## 472957.657 457132.805 707190.139 421536.862 387108.644 510949.874   
## 770 775 777 781 785 787   
## 884201.954 378094.330 379587.098 291549.282 884588.710 437255.723   
## 791 792 795 803 804 808   
## 455525.197 786834.847 83439.421 552983.297 863672.311 693403.176   
## 810 812 814 816 817 818   
## 384009.115 358053.591 609589.836 431049.970 219992.380 208001.475   
## 821 823 824 827 830 832   
## 57415.211 1044700.427 583969.647 694032.307 598882.470 433674.900   
## 834 837 840 842 854 862   
## 519024.928 442703.715 400921.844 369203.791 690991.740 333655.208   
## 864 865 867 872 874 876   
## 790406.831 310707.461 626966.252 436379.953 991924.264 762707.686   
## 880 882 886 890 891 893   
## 189140.869 397364.147 747214.419 616019.429 852183.385 528631.469   
## 895 901 905 908 909 911   
## 204545.122 792914.421 287198.485 327169.312 509685.129 255001.674   
## 912 914 916 925 926 932   
## 653712.962 497069.171 610877.191 477327.336 660541.420 569566.983   
## 933 937 944 946 947 948   
## 74351.079 467518.254 1092761.883 442348.668 280667.583 742728.354   
## 951 952 955 958 959 960   
## 236040.124 525917.834 889156.756 380714.140 415035.829 456137.994   
## 961 971 973 979 980 981   
## 773444.536 508143.587 371443.431 279632.551 280761.737 495914.097   
## 982 983 984 986 988 989   
## 882483.284 356799.878 396883.562 307669.581 241835.793 377566.497   
## 999 1004 1014 1020 1023 1027   
## 244967.112 548017.728 577541.745 340639.175 322214.002 265689.539   
## 1028 1033 1034 1036 1037 1041   
## 454348.473 556876.292 325159.215 1121429.506 378958.829 364425.387   
## 1042 1044 1045 1049 1050 1056   
## 478876.201 117378.866 481251.607 562960.104 797931.370 1382713.534   
## 1057 1058 1060 1062 1064 1067   
## 424584.340 447775.129 466044.465 1051351.470 220203.444 3498.126   
## 1068 1069 1075 1078 1080 1081   
## 325004.086 146889.709 479301.654 376079.068 297913.475 242393.129   
## 1090 1091 1093 1094 1097 1103   
## 463438.810 938799.425 640676.778 716835.490 -38355.475 250212.552   
## 1110 1112 1113 1114 1115 1116   
## 614899.039 335808.029 610065.739 737585.580 448625.014 208062.172   
## 1121 1122 1126 1130 1135 1141   
## 135982.800 123002.245 426529.597 516853.979 275753.980 731368.847   
## 1144 1146 1148 1156 1158 1161   
## 916067.415 282647.619 622366.605 340873.566 1214714.290 386455.543   
## 1162 1164 1167 1169 1171 1177   
## 1166268.571 802050.010 469694.662 775346.965 928796.030 827161.479   
## 1179 1189 1192 1194 1199 1203   
## 522417.562 440597.780 214002.626 510914.547 255965.490 358439.723   
## 1206 1207 1208 1213 1215 1218   
## 439825.085 365824.888 579603.632 356966.769 776656.038 1184437.637   
## 1223 1225 1231 1232 1235 1237   
## 402409.753 691472.924 434229.153 421885.009 127027.095 169432.642   
## 1240 1242 1244 1245 1246 1248   
## 507465.451 477102.289 121245.482 845541.194 452727.961 1031073.023   
## 1249 1250 1255 1261 1263 1264   
## 462610.410 684224.300 534076.934 719757.042 537386.588 922400.075   
## 1270 1271 1275 1283 1284 1289   
## 611620.342 555849.631 804848.818 999776.592 467342.793 371011.968   
## 1291 1294 1295 1297 1299 1301   
## 545604.775 422199.133 1321212.366 681886.069 699098.527 468856.719   
## 1303 1306 1307 1309 1311 1317   
## 267489.682 440452.327 750430.946 427940.840 1059099.645 677991.244   
## 1320 1323 1328 1330 1331 1337   
## 570744.017 459116.326 381875.295 568955.767 587165.659 484090.098   
## 1341 1352 1353 1356 1358 1360   
## 479321.037 354080.810 557680.707 1120345.067 760808.923 724915.516   
## 1367 1368 1369 1370 1373 1383   
## 559077.904 360779.814 697437.473 236802.694 412604.294 747985.351   
## 1387 1392 1393 1399 1402 1403   
## 701774.188 400276.866 335252.224 500110.560 89744.296 256106.072   
## 1404 1407 1408 1411 1418 1421   
## 812685.157 294051.540 347516.751 669516.048 1411437.051 1610474.515   
## 1427 1428 1433 1434 1436 1437   
## 167996.396 424222.405 182745.758 1296846.066 487299.937 945351.121   
## 1453 1464 1466 1467 1468 1473   
## 238388.502 501599.039 801099.333 534470.081 312606.843 196438.045   
## 1475 1477 1483 1491 1493 1494   
## 452060.328 416517.799 620158.299 541621.417 594935.134 673894.546   
## 1499 1503 1504 1508 1509 1513   
## 866469.040 353333.289 815508.212 493814.627 669287.478 818995.389   
## 1514 1515 1516 1517 1518 1520   
## 121709.352 418144.202 694096.551 306508.712 495003.050 714400.469   
## 1525 1526 1527 1529 1530 1534   
## 559203.355 914871.770 461807.818 563755.187 787700.187 767283.988   
## 1535 1536 1537 1541 1554 1556   
## 519119.968 910050.313 815135.363 654854.406 292966.904 399945.190   
## 1557 1558 1561 1562 1564 1566   
## 185242.434 1009202.061 686056.636 527788.480 474363.696 1174336.006   
## 1568 1569 1573 1576 1577 1579   
## 181090.633 807546.239 581650.597 974546.188 129860.355 627591.718   
## 1582 1587 1591 1597 1598 1599   
## 426445.653 1419336.087 520580.685 195357.405 633012.894 538671.883   
## 1606 1619 1620 1636 1638 1644   
## 417730.505 603419.664 154504.021 594018.507 378226.929 225149.104   
## 1645 1646 1648 1653 1655 1657   
## 252406.363 418653.853 487754.799 364683.967 534781.492 249888.012   
## 1669 1674 1678 1681 1686 1692   
## 576011.125 259305.791 88510.794 716401.928 1137756.868 72713.161   
## 1695 1697 1703 1705 1707 1710   
## 411239.231 784623.498 2525.746 623670.205 1127106.352 816033.856   
## 1715 1723 1730 1733 1736 1738   
## 857652.924 380333.167 849445.016 1404153.207 502413.304 330368.722   
## 1739 1744 1748 1749 1750 1755   
## 250895.548 717942.186 268558.432 389702.348 290679.252 1479746.761   
## 1758 1759 1761 1763 1764 1766   
## 942197.205 687554.356 570790.342 617760.404 994911.242 561538.572   
## 1768 1771 1774 1777 1779 1780   
## 380628.808 1514223.921 469492.925 410414.516 987780.596 480825.216   
## 1783 1789 1793 1801 1802 1809   
## -84796.677 235302.119 67776.895 269785.850 696879.505 703058.496   
## 1812 1816 1820 1821 1822 1826   
## 291022.759 187006.745 763641.793 383792.688 470742.932 553687.514   
## 1827 1829 1834 1836 1840 1850   
## 332186.350 528779.123 585635.851 1390767.969 186106.156 209802.728   
## 1852 1855 1865 1874 1875 1880   
## 526002.782 435449.323 427841.160 580427.283 466107.438 520547.558   
## 1881 1882 1886 1889 1893 1894   
## 369711.666 350954.368 273472.217 725941.905 502209.805 1060468.473   
## 1895 1899 1900 1901 1905 1907   
## 1219246.548 94355.950 402609.654 299194.445 902568.904 334153.590   
## 1911 1913 1916 1920 1923 1928   
## 316318.692 480440.200 535002.573 595242.515 390603.601 311753.032   
## 1933 1941 1943 1945 1947 1949   
## 298071.924 236557.570 345596.421 1397564.167 1158231.574 188730.069   
## 1956 1958 1959 1962 1963 1964   
## 656091.787 327602.741 390456.272 251401.519 748496.561 384877.160   
## 1965 1966 1967 1979 1984 1987   
## 83511.627 293249.013 711898.302 975488.150 599481.763 592220.174   
## 1988 1990 1995 1996 1999 2007   
## 1114642.642 444662.771 431068.962 405819.927 567249.730 577089.048   
## 2010 2014 2021 2022 2023 2024   
## 773271.453 433661.086 1006655.379 480032.338 265757.196 1340147.872   
## 2025 2027 2029 2031 2037 2038   
## 265452.925 373945.347 246239.194 722819.643 722081.037 449907.408   
## 2040 2045 2050 2056 2058 2064   
## 265975.568 909013.861 507028.702 385495.144 322907.028 378315.581   
## 2069 2070 2072 2073 2076 2077   
## 490193.564 381819.813 1035293.608 65052.624 1166969.512 758104.219   
## 2085 2086 2091 2092 2103 2104   
## 819784.584 2428493.561 497359.852 891282.551 207835.720 583478.610   
## 2108 2109 2110 2111 2113 2120   
## 227814.125 969987.087 324514.022 509536.833 1263084.150 616522.434   
## 2128 2130 2132 2138 2140 2147   
## 245641.216 293627.052 530851.544 308799.607 646397.467 582212.263   
## 2148 2152 2155 2158 2164 2168   
## 296441.062 460048.125 217136.521 730058.913 391319.348 472574.053   
## 2171 2173 2175 2177 2181 2187   
## 398141.280 627858.787 670240.833 712005.644 583347.026 323109.579   
## 2192 2197 2198 2199 2207 2210   
## 783380.362 479507.253 401717.563 716428.357 348888.440 798042.198   
## 2213 2215 2217 2220 2221 2224   
## 517875.834 766577.342 509586.550 578793.863 558391.464 222719.984   
## 2230 2237 2240 2245 2251 2259   
## 306214.614 1777698.794 258382.972 554741.848 583298.190 709854.592   
## 2261 2262 2264 2267 2268 2273   
## 151089.950 389793.606 229520.532 367208.298 1794457.181 80544.795   
## 2277 2283 2285 2298 2301 2305   
## 327398.108 505613.487 366202.097 430325.112 680643.549 486670.926   
## 2306 2309 2312 2314 2317 2323   
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#install.packages("rpart")  
#install.packages("rpart.plot")  
library(rpart)

## Warning: package 'rpart' was built under R version 3.4.1

library(rpart.plot)

## Warning: package 'rpart.plot' was built under R version 3.4.1

plot(pred)

