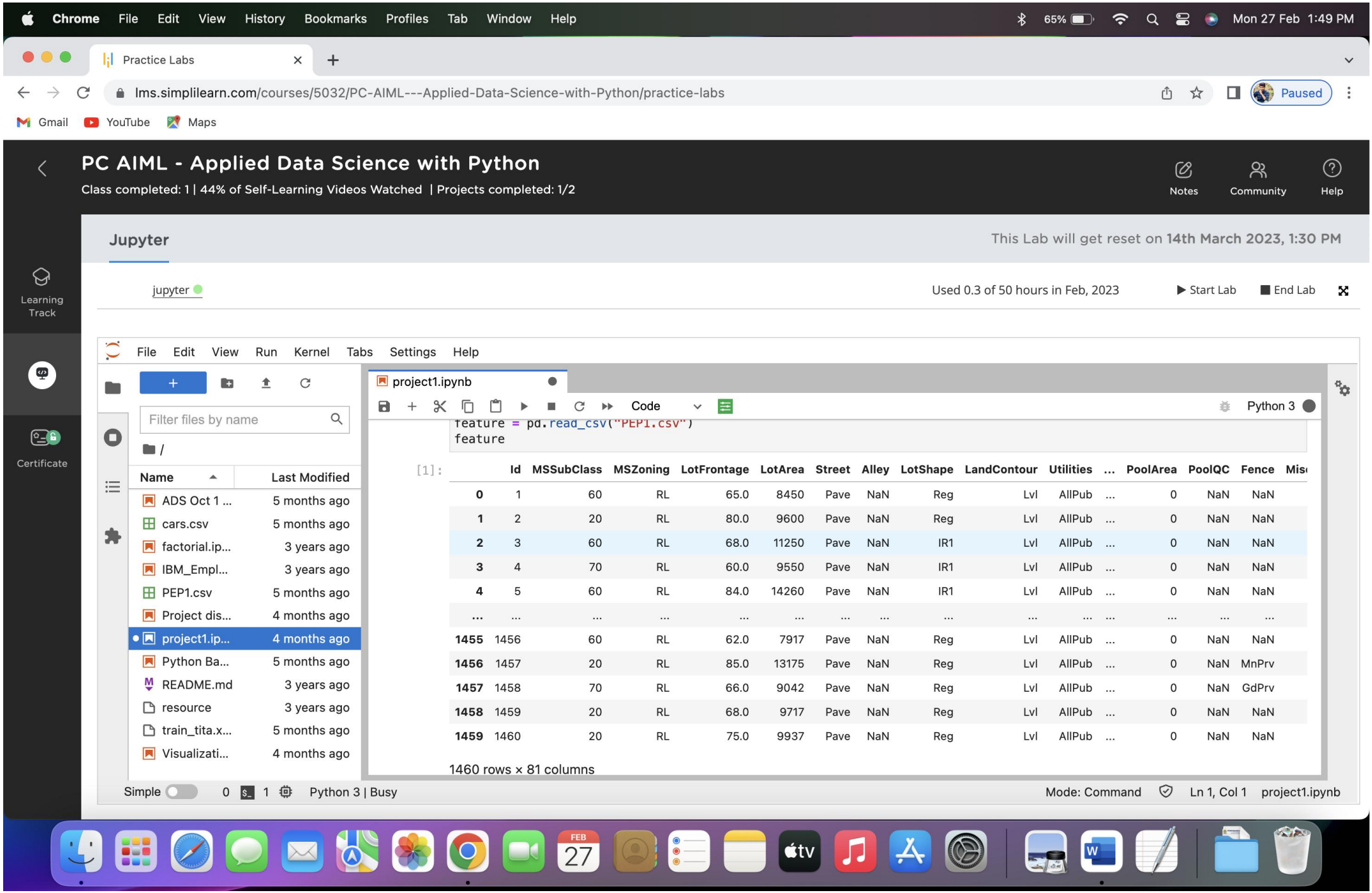
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Code
Python 3
feature = pd.read_csv("PEP1.csv")
feature
[1]:
Id MSSubClass MSZoning LotFrontage LotArea Street Alley LotShape LandContour Utilities ... PoolArea PoolQC Fence Misc
0 1 60 RL 65.0 8450 Pave NaN Reg Lvl AllPub ... 0 NaN NaN
1 2 20 RL 80.0 9600 Pave NaN Reg Lvl AllPub ... 0 NaN NaN
2 3 60 RL 68.0 11250 Pave NaN IR1 Lvl AllPub ... 0 NaN NaN
3 4 70 RL 60.0 9550 Pave NaN IR1 Lvl AllPub ... 0 NaN NaN
4 5 60 RL 84.0 14260 Pave NaN IR1 Lvl AllPub ... 0 NaN NaN
... ...
1455 1456 60 RL 62.0 7917 Pave NaN Reg Lvl AllPub ... 0 NaN NaN
1456 1457 20 RL 85.0 13175 Pave NaN Reg Lvl AllPub ... 0 NaN MnPrv
1457 1458 70 RL 66.0 9042 Pave NaN Reg Lvl AllPub ... 0 NaN GdPrv
1458 1459 20 RL 68.0 9717 Pave NaN Reg Lvl AllPub ... 0 NaN NaN
1459 1460 20 RL 75.0 9937 Pave NaN Reg Lvl AllPub ... 0 NaN NaN
1460 rows × 81 columns
Simple 0 1 Python 3 | Busy
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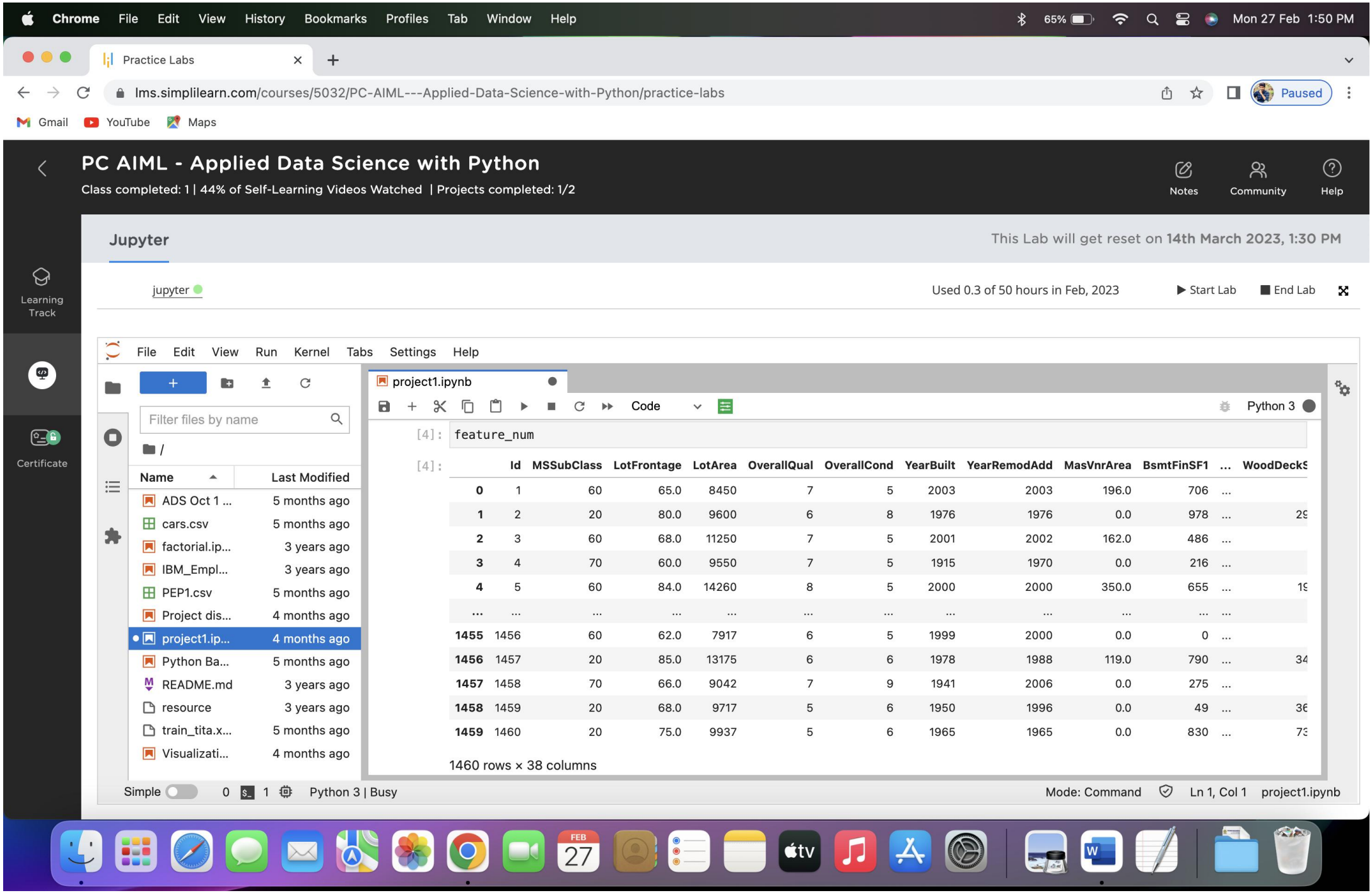
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resource 3 years ago
train_tita.x... 5 months ago
Visualizati... 4 months ago
project1.ipynb
Code
Python 3
[4]: feature_num
[4]:
Id MSSubClass LotFrontage LotArea OverallQual OverallCond YearBuilt YearRemodAdd MasVnrArea BsmtFinSF1 ... WoodDeckS
0 1 60 65.0 8450 7 5 2003 2003 196.0 706 ...
1 2 20 80.0 9600 6 8 1976 1976 0.0 978 ... 29
2 3 60 68.0 11250 7 5 2001 2002 162.0 486 ...
3 4 70 60.0 9550 7 5 1915 1970 0.0 216 ...
4 5 60 84.0 14260 8 5 2000 2000 350.0 655 ... 19
... ...
1455 1456 60 62.0 7917 6 5 1999 2000 0.0 0 ...
1456 1457 20 85.0 13175 6 6 1978 1988 119.0 790 ... 34
1457 1458 70 66.0 9042 7 9 1941 2006 0.0 275 ...
1458 1459 20 68.0 9717 5 6 1950 1996 0.0 49 ... 36
1459 1460 20 75.0 9937 5 6 1965 1965 0.0 830 ... 73
1460 rows × 38 columns
Simple
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Mode: Command
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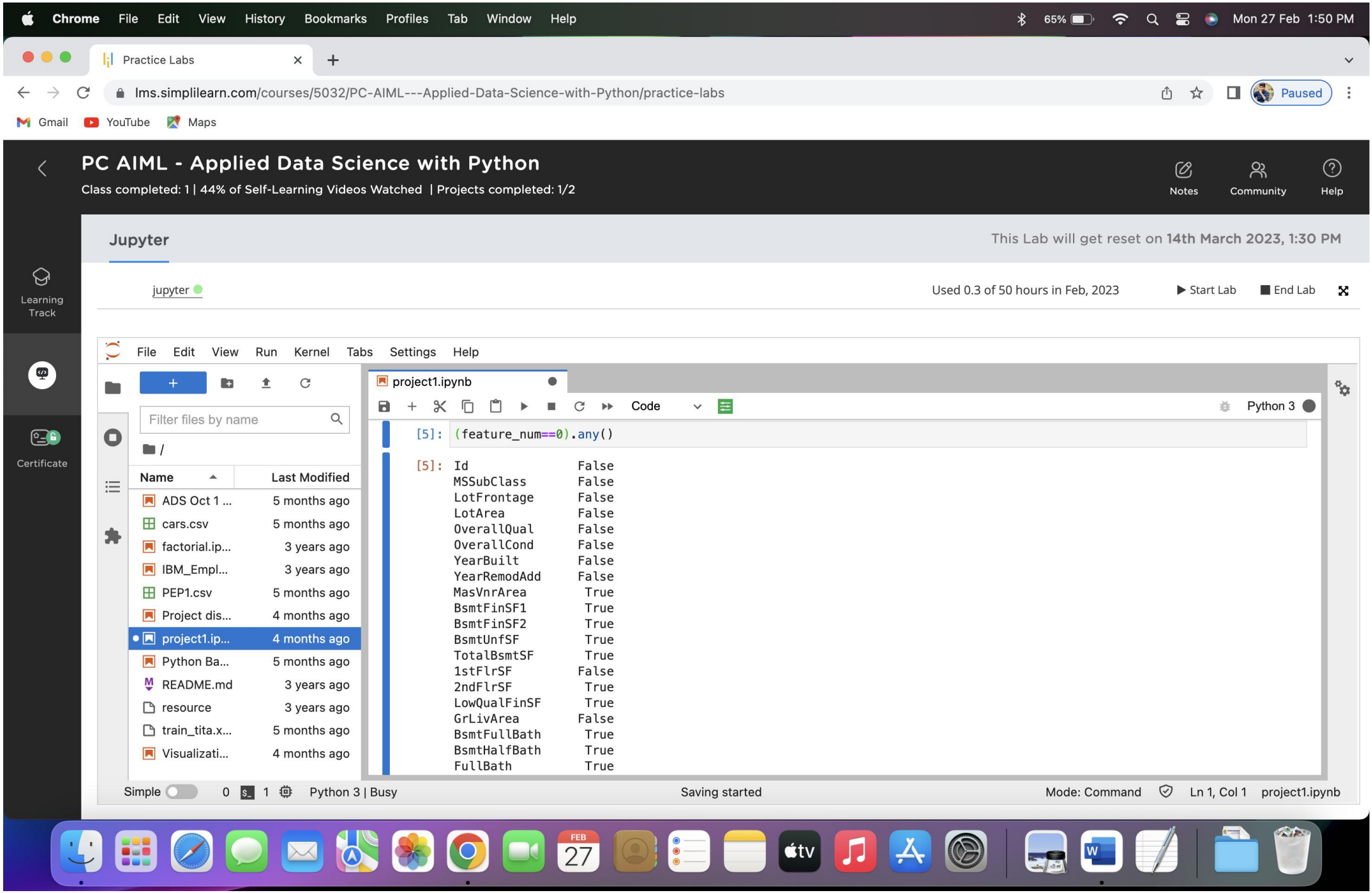
project1.ipynb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project1.ipynb
Code
Python 3
[5]: (feature_num==0).any()
[5]: Id False
MSSubClass False
LotFrontage False
LotArea False
OverallQual False
OverallCond False
YearBuilt False
YearRemodAdd False
MasVnrArea True
BsmtFinSF1 True
BsmtFinSF2 True
BsmtUnfSF True
TotalBsmtSF True
1stFlrSF False
2ndFlrSF True
LowQualFinSF True
GrLivArea False
BsmtFullBath True
BsmtHalfBath True
FullBath True
Simple
0 1
Python 3 | Busy
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Mode: Command
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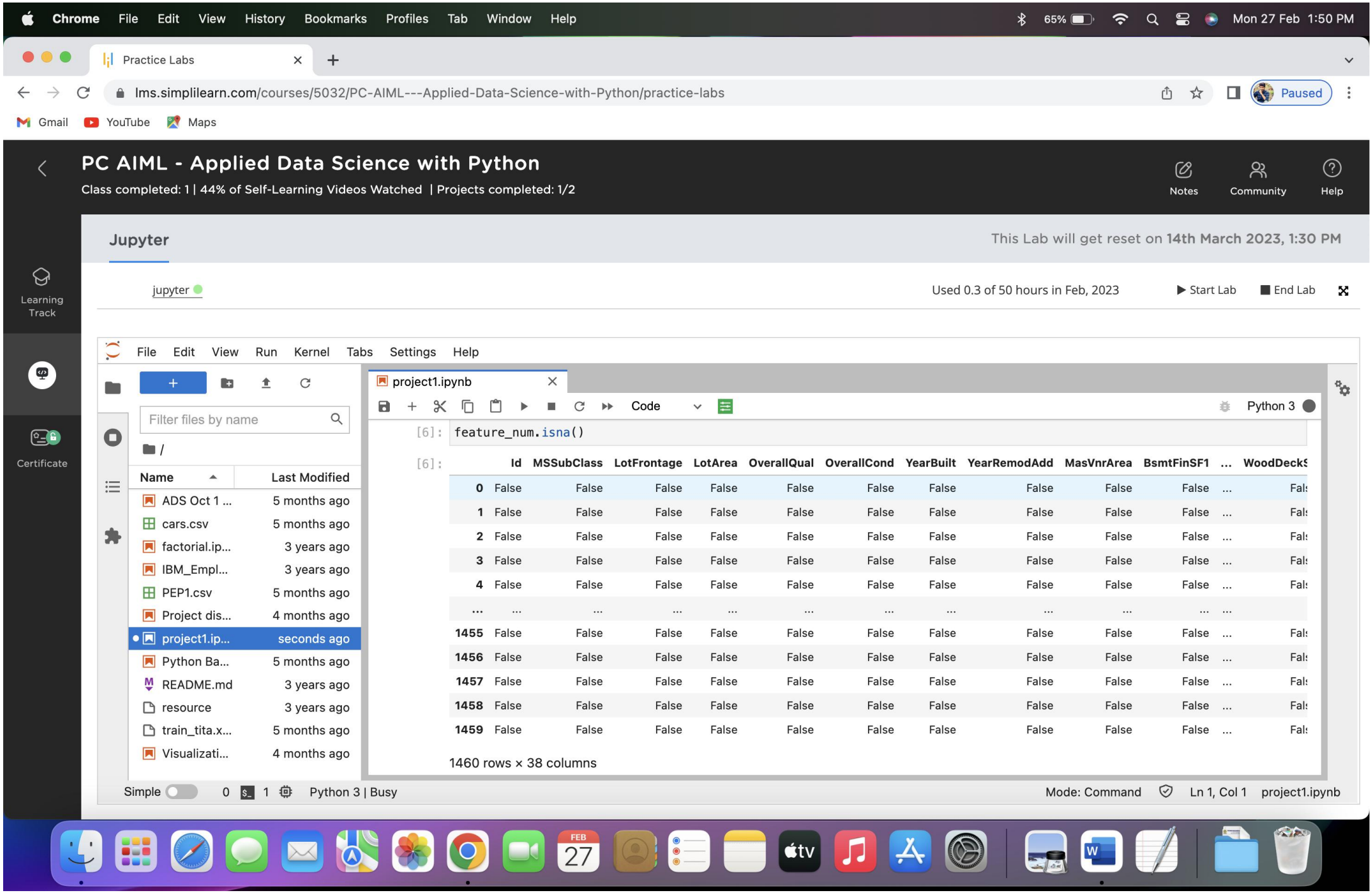
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Code
Python 3
[6]: feature_num.isna()
[6]:
Id MSSubClass LotFrontage LotArea OverallQual OverallCond YearBuilt YearRemodAdd MasVnrArea BsmtFinSF1 ... WoodDeckS
0 False False False False False False False False False False ... Fals
1 False False False False False False False False False False ... Fals
2 False False False False False False False False False False ... Fals
3 False False False False False False False False False False ... Fals
4 False False False False False False False False False False ... Fals
... ...
1455 False False False False False False False False False False ... Fals
1456 False False False False False False False False False False ... Fals
1457 False False False False False False False False False False ... Fals
1458 False False False False False False False False False False ... Fals
1459 False False False False False False False False False False ... Fals
1460 rows × 38 columns
Simple
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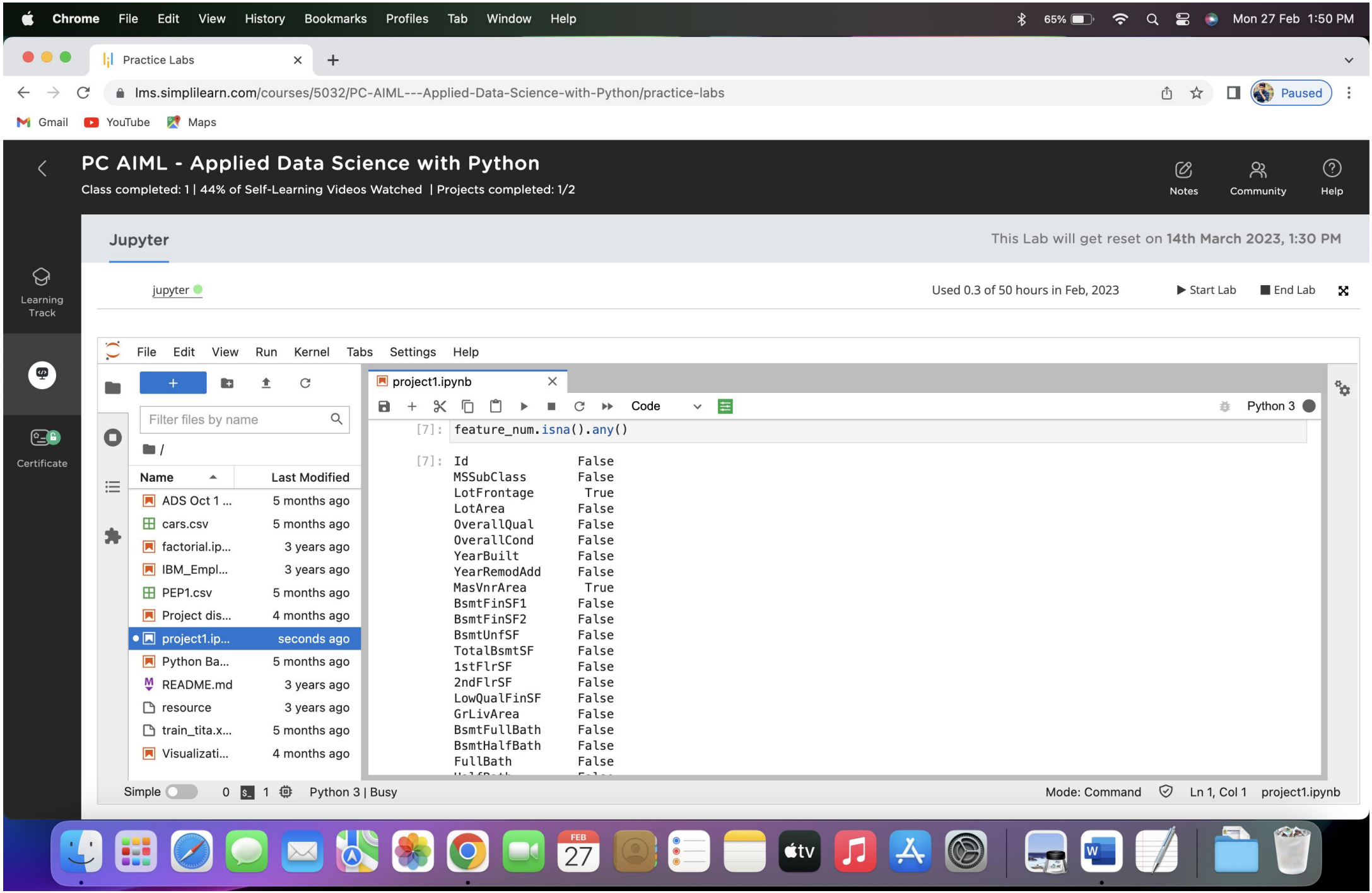
Python 3 | Busy
Mode: Command
Ln 1, Col 1
project1.ipynb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Code
Python 3
[7]: feature_num.isna().any()
[7]: Id False
MSSubClass False
LotFrontage True
LotArea False
OverallQual False
OverallCond False
YearBuilt False
YearRemodAdd False
MasVnrArea True
BsmtFinSF1 False
BsmtFinSF2 False
BsmtUnfSF False
TotalBsmtSF False
1stFlrSF False
2ndFlrSF False
LowQualFinSF False
GrLivArea False
BsmtFullBath False
BsmtHalfBath False
FullBath False
Simple
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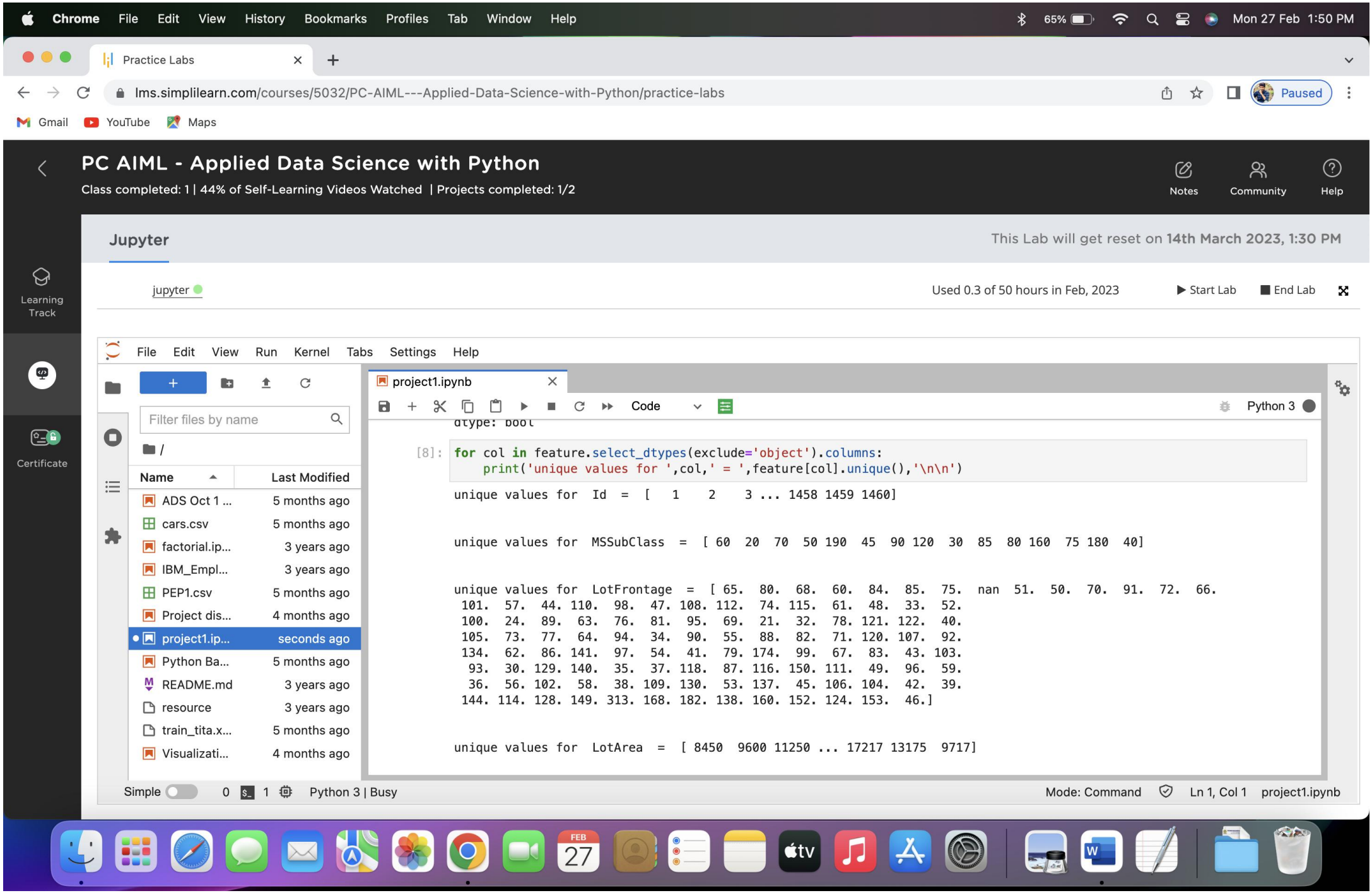
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Code
Python 3
dtype: bool
[8]:
for col in feature.select_dtypes(exclude='object').columns:
print('unique values for ',col,' = ',feature[col].unique(),'\n\n')
unique values for Id = [1 2 3 ... 1458 1459 1460]
unique values for MSSubClass = [60 20 70 50 190 45 90 120 30 85 80 160 75 180 40]
unique values for LotFrontage = [65. 80. 68. 60. 84. 85. 75. nan 51. 50. 70. 91. 72. 66.
101. 57. 44. 110. 98. 47. 108. 112. 74. 115. 61. 48. 33. 52.
100. 24. 89. 63. 76. 81. 95. 69. 21. 32. 78. 121. 122. 40.
105. 73. 77. 64. 94. 34. 90. 55. 88. 82. 71. 120. 107. 92.
134. 62. 86. 141. 97. 54. 41. 79. 174. 99. 67. 83. 43. 103.
93. 30. 129. 140. 35. 37. 118. 87. 116. 150. 111. 49. 96. 59.
36. 56. 102. 58. 38. 109. 130. 53. 137. 45. 106. 104. 42. 39.
144. 114. 128. 149. 313. 168. 182. 138. 160. 152. 124. 153. 46.]
unique values for LotArea = [8450 9600 11250 ... 17217 13175 9717]
Simple
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Python 3 | Busy
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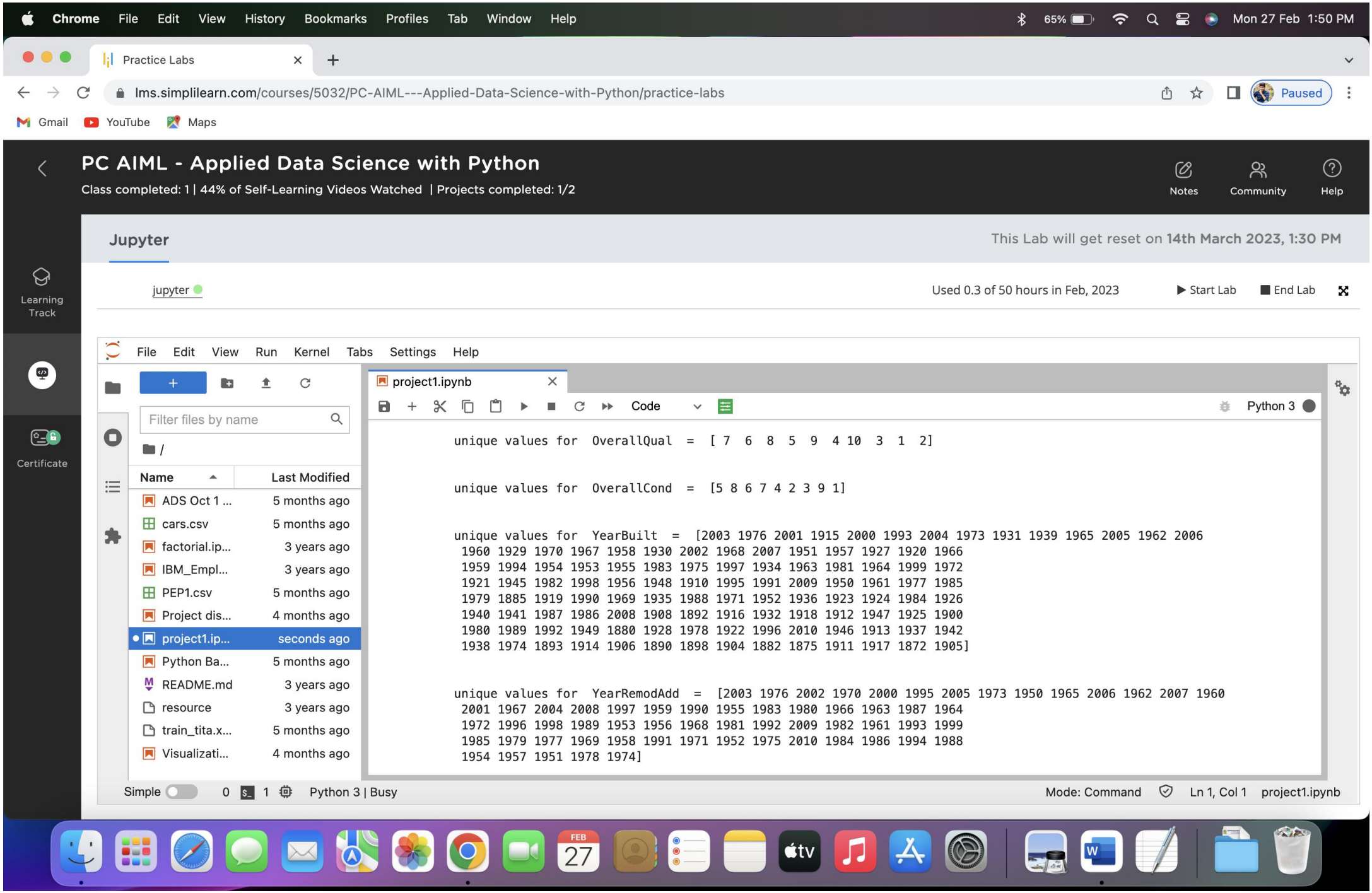
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Code
Python 3
unique values for OverallQual = [7 6 8 5 9 4 10 3 1 2]
unique values for OverallCond = [5 8 6 7 4 2 3 9 1]
unique values for YearBuilt = [2003 1976 2001 1915 2000 1993 2004 1973 1931 1939 1965 2005 1962 2006
1960 1929 1970 1967 1958 1930 2002 1968 2007 1951 1957 1927 1920 1966
1959 1994 1954 1953 1955 1983 1975 1997 1934 1963 1981 1964 1999 1972
1921 1945 1982 1998 1956 1948 1910 1995 1991 2009 1950 1961 1977 1985
1979 1885 1919 1990 1969 1935 1988 1971 1952 1936 1923 1924 1984 1926
1940 1941 1987 1986 2008 1908 1892 1916 1932 1918 1912 1947 1925 1900
1980 1989 1992 1949 1880 1928 1978 1922 1996 2010 1946 1913 1937 1942
1938 1974 1893 1914 1906 1890 1898 1904 1882 1875 1911 1917 1872 1905]
unique values for YearRemodAdd = [2003 1976 2002 1970 2000 1995 2005 1973 1950 1965 2006 1962 2007 1960
2001 1967 2004 2008 1997 1959 1990 1955 1983 1980 1966 1963 1987 1964
1972 1996 1998 1989 1953 1956 1968 1981 1992 2009 1982 1961 1993 1999
1985 1979 1977 1969 1958 1991 1971 1952 1975 2010 1984 1986 1994 1988
1954 1957 1951 1978 1974]
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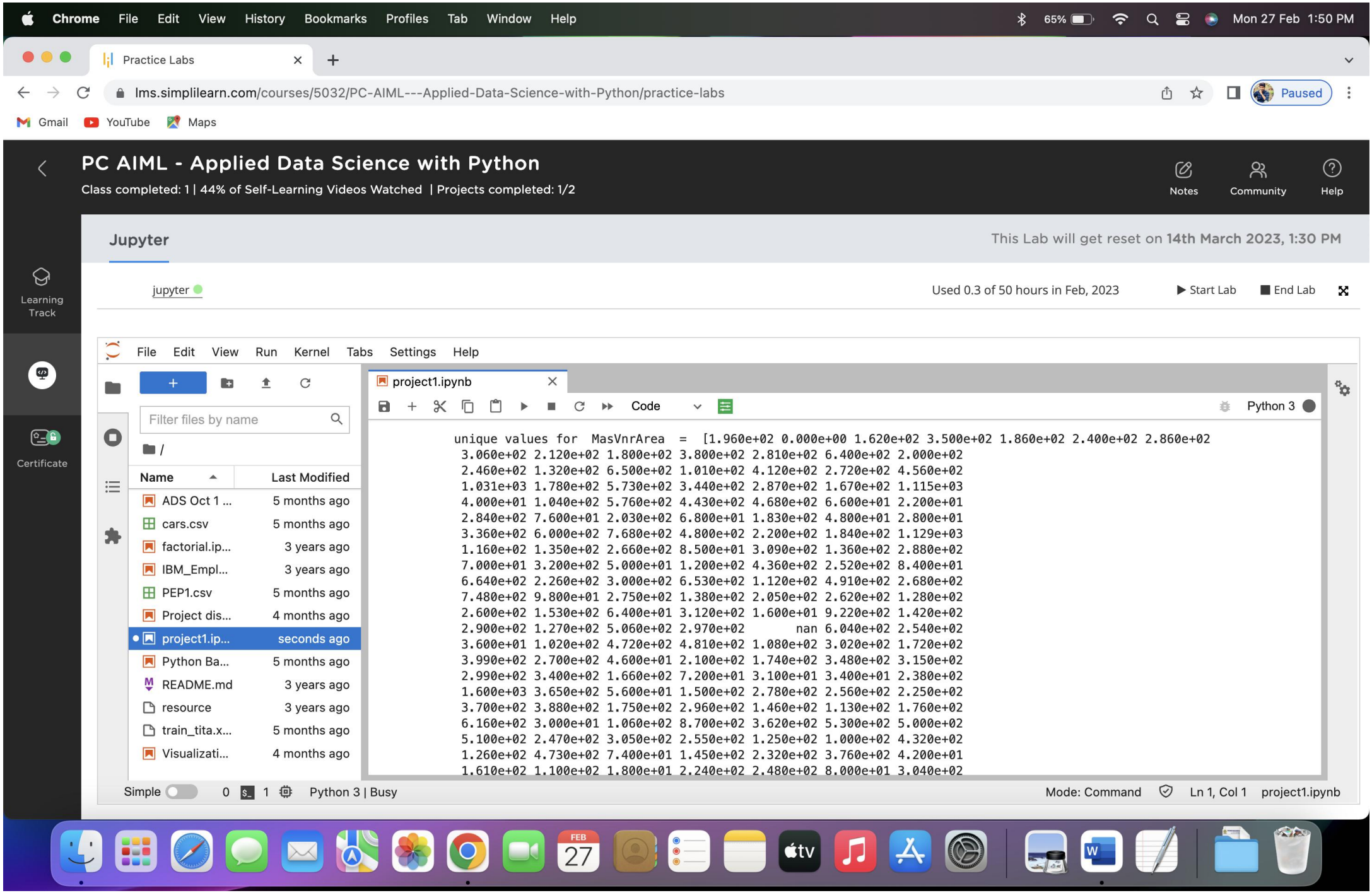
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Code
Python 3
unique values for MasVnrArea = [1.960e+02 0.000e+00 1.620e+02 3.500e+02 1.860e+02 2.400e+02 2.860e+02
3.060e+02 2.120e+02 1.800e+02 3.800e+02 2.810e+02 6.400e+02 2.000e+02
2.460e+02 1.320e+02 6.500e+02 1.010e+02 4.120e+02 2.720e+02 4.560e+02
1.031e+03 1.780e+02 5.730e+02 3.440e+02 2.870e+02 1.670e+02 1.115e+03
4.000e+01 1.040e+02 5.760e+02 4.430e+02 4.680e+02 6.600e+01 2.200e+01
2.840e+02 7.600e+01 2.030e+02 6.800e+01 1.830e+02 4.800e+01 2.800e+01
3.360e+02 6.000e+02 7.680e+02 4.800e+02 2.200e+02 1.840e+02 1.129e+03
1.160e+02 1.350e+02 2.660e+02 8.500e+01 3.090e+02 1.360e+02 2.880e+02
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6.640e+02 2.260e+02 3.000e+02 6.530e+02 1.120e+02 4.910e+02 2.680e+02
7.480e+02 9.800e+01 2.750e+02 1.380e+02 2.050e+02 2.620e+02 1.280e+02
2.600e+02 1.530e+02 6.400e+01 3.120e+02 1.600e+01 9.220e+02 1.420e+02
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1.600e+03 3.650e+02 5.600e+01 1.500e+02 2.780e+02 2.560e+02 2.250e+02
3.700e+02 3.880e+02 1.750e+02 2.960e+02 1.460e+02 1.130e+02 1.760e+02
6.160e+02 3.000e+01 1.060e+02 8.700e+02 3.620e+02 5.300e+02 5.000e+02
5.100e+02 2.470e+02 3.050e+02 2.550e+02 1.250e+02 1.000e+02 4.320e+02
1.260e+02 4.730e+02 7.400e+01 1.450e+02 2.320e+02 3.760e+02 4.200e+01
1.610e+02 1.100e+02 1.800e+01 2.240e+02 2.480e+02 8.000e+01 3.040e+02
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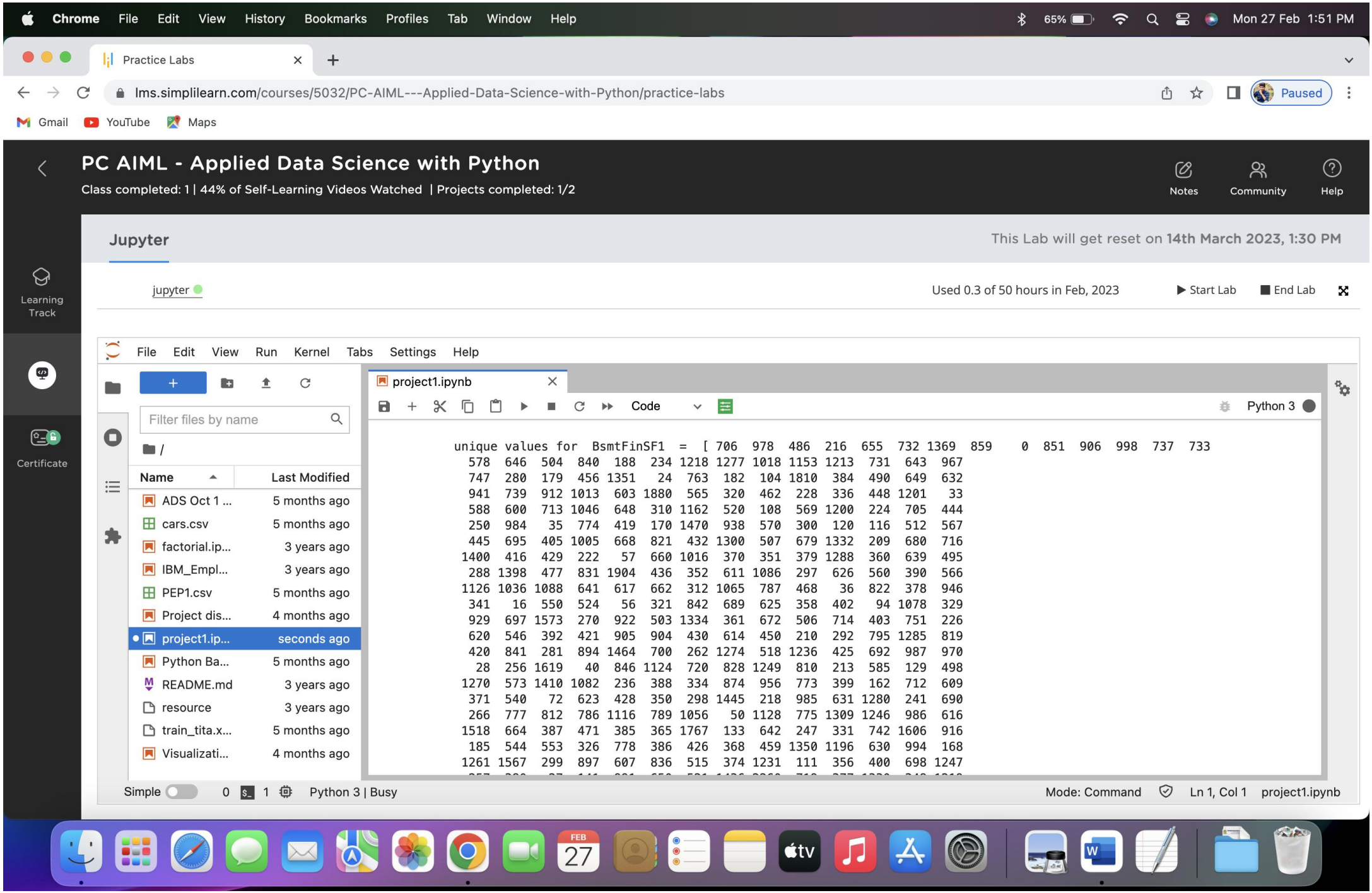
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Code
Python 3
unique values for BsmtFinSF1 = [706 978 486 216 655 732 1369 859 0 851 906 998 737 733
578 646 504 840 188 234 1218 1277 1018 1153 1213 731 643 967
747 280 179 456 1351 24 763 182 104 1810 384 490 649 632
941 739 912 1013 603 1880 565 320 462 228 336 448 1201 33
588 600 713 1046 648 310 1162 520 108 569 1200 224 705 444
250 984 35 774 419 170 1470 938 570 300 120 116 512 567
445 695 405 1005 668 821 432 1300 507 679 1332 209 680 716
1400 416 429 222 57 660 1016 370 351 379 1288 360 639 495
288 1398 477 831 1904 436 352 611 1086 297 626 560 390 566
1126 1036 1088 641 617 662 312 1065 787 468 36 822 378 946
341 16 550 524 56 321 842 689 625 358 402 94 1078 329
929 697 1573 270 922 503 1334 361 672 506 714 403 751 226
620 546 392 421 905 904 430 614 450 210 292 795 1285 819
420 841 281 894 1464 700 262 1274 518 1236 425 692 987 970
28 256 1619 40 846 1124 720 828 1249 810 213 585 129 498
1270 573 1410 1082 236 388 334 874 956 773 399 162 712 609
371 540 72 623 428 350 298 1445 218 985 631 1280 241 690
266 777 812 786 1116 789 1056 50 1128 775 1309 1246 986 616
1518 664 387 471 385 365 1767 133 642 247 331 742 1606 916
185 544 553 326 778 386 426 368 459 1350 1196 630 994 168
1261 1567 299 897 607 836 515 374 1231 111 356 400 698 1247
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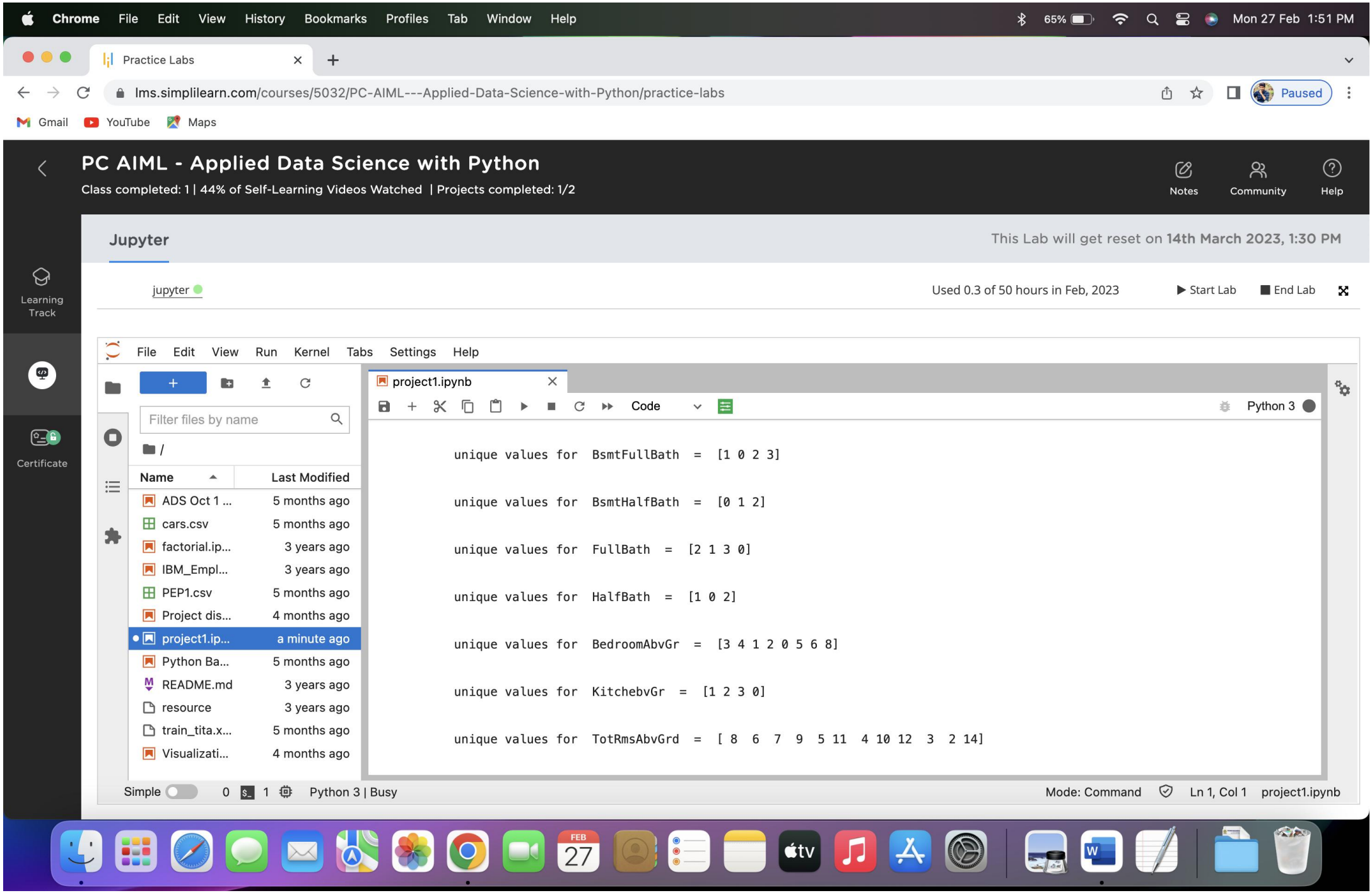
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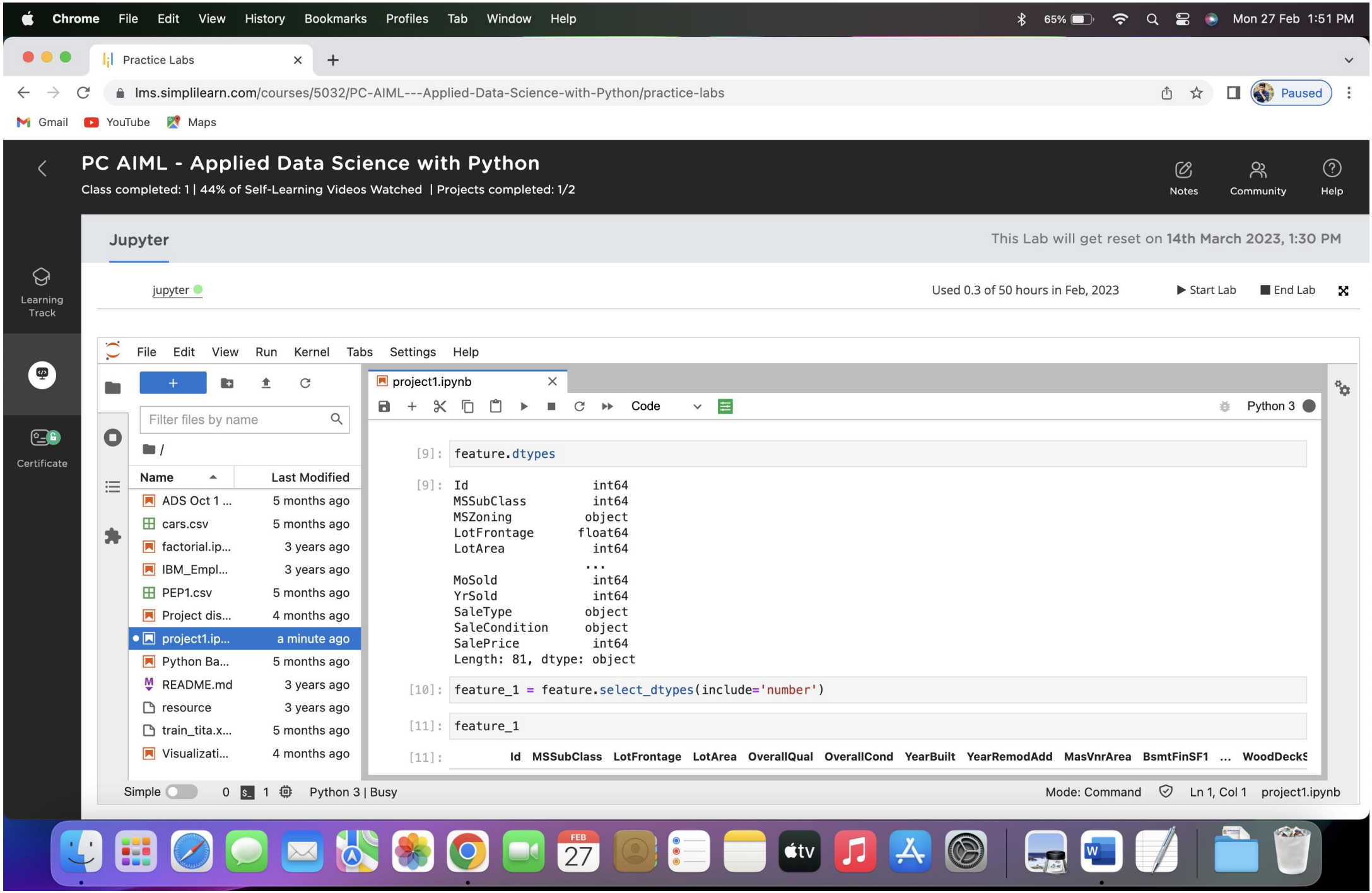
Code
Python 3
unique values for BsmtFullBath = [1 0 2 3]
unique values for BsmtHalfBath = [0 1 2]
unique values for FullBath = [2 1 3 0]
unique values for HalfBath = [1 0 2]
unique values for BedroomAbvGr = [3 4 1 2 0 5 6 8]
unique values for KitchebvGr = [1 2 3 0]
unique values for TotRmsAbvGrd = [8 6 7 9 5 11 4 10 12 3 2 14]
Simple
0
1
Python 3 | Busy
Mode: Command
Ln 1, Col 1
project1.ipynb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resource 3 years ago
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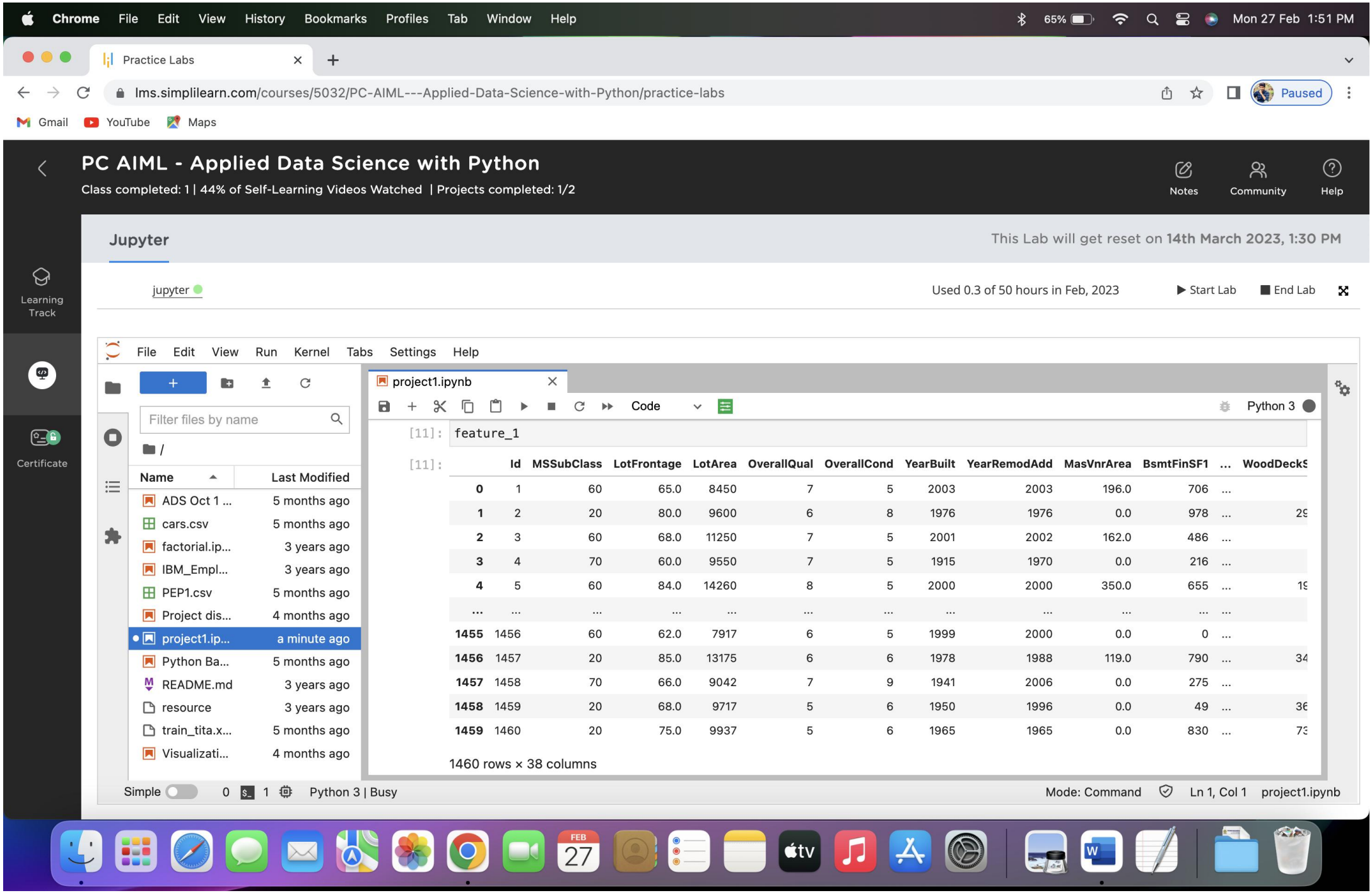
Visualizati... 4 months ago
project1.ipynb
Code
Python 3
[9]: feature.dtypes
[9]: Id int64
MSSubClass int64
MSZoning object
LotFrontage float64
LotArea int64
...
MoSold int64
YrSold int64
SaleType object
SaleCondition object
SalePrice int64
Length: 81, dtype: object
[10]: feature_1 = feature.select_dtypes(include='number')
[11]: feature_1
[11]: Id MSSubClass LotFrontage LotArea OverallQual OverallCond YearBuilt YearRemodAdd MasVnrArea BsmtFinSF1 ... WoodDeckS
Simple
0 1
Python 3 | Busy
Mode: Command
Ln 1, Col 1
project1.ipynb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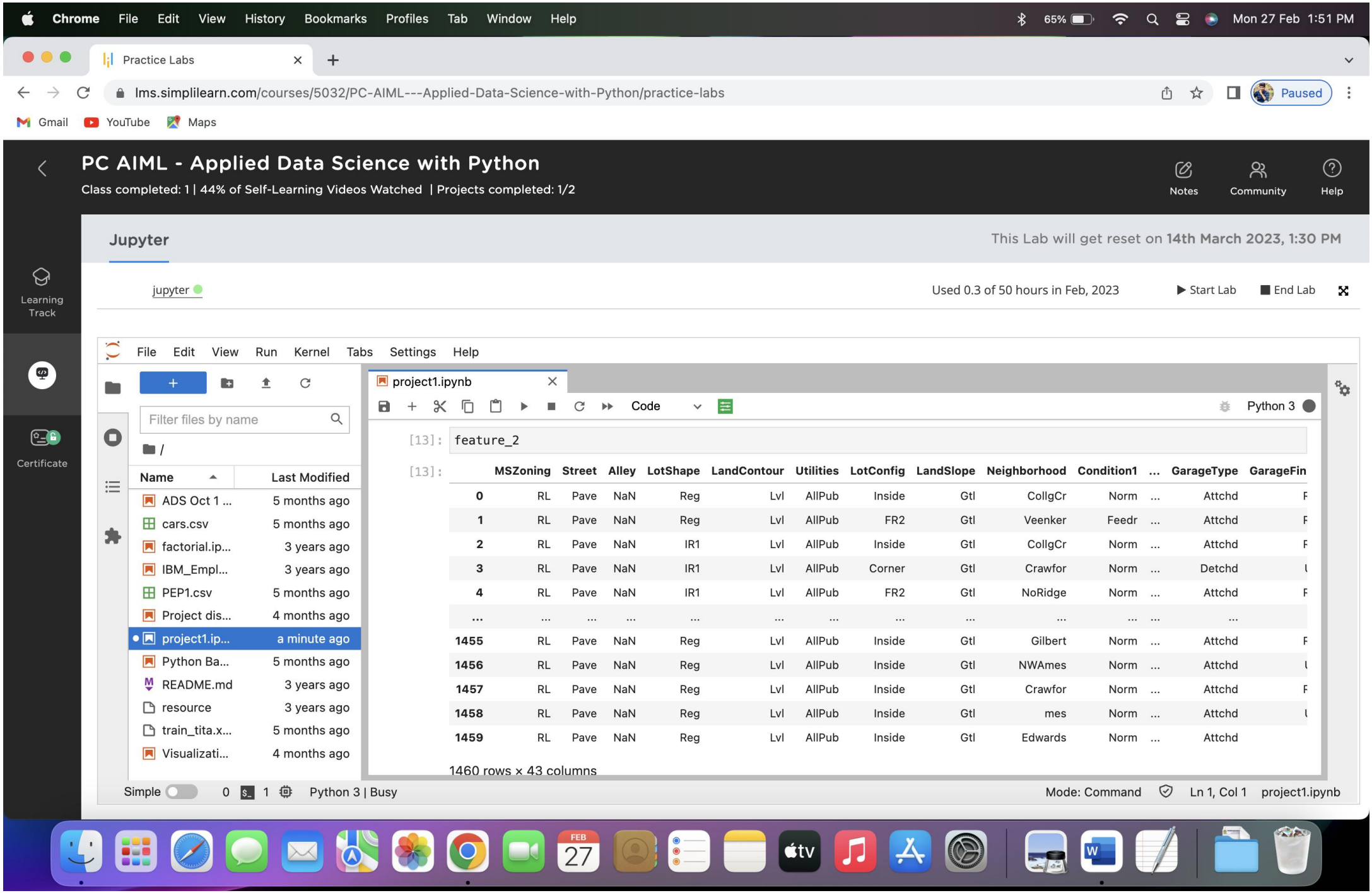
project1.ipynb
Code
Python 3
[11]: feature_1
[11]:
Id MSSubClass LotFrontage LotArea OverallQual OverallCond YearBuilt YearRemodAdd MasVnrArea BsmtFinSF1 ... WoodDeckS
0 1 60 65.0 8450 7 5 2003 2003 196.0 706 ...
1 2 20 80.0 9600 6 8 1976 1976 0.0 978 ... 29
2 3 60 68.0 11250 7 5 2001 2002 162.0 486 ...
3 4 70 60.0 9550 7 5 1915 1970 0.0 216 ...
4 5 60 84.0 14260 8 5 2000 2000 350.0 655 ... 19
... ...
1455 1456 60 62.0 7917 6 5 1999 2000 0.0 0 ...
1456 1457 20 85.0 13175 6 6 1978 1988 119.0 790 ... 34
1457 1458 70 66.0 9042 7 9 1941 2006 0.0 275 ...
1458 1459 20 68.0 9717 5 6 1950 1996 0.0 49 ... 36
1459 1460 20 75.0 9937 5 6 1965 1965 0.0 830 ... 73
1460 rows × 38 columns
Simple
0 1
Python 3 | Busy
Mode: Command
Ln 1, Col 1
project1.ipynb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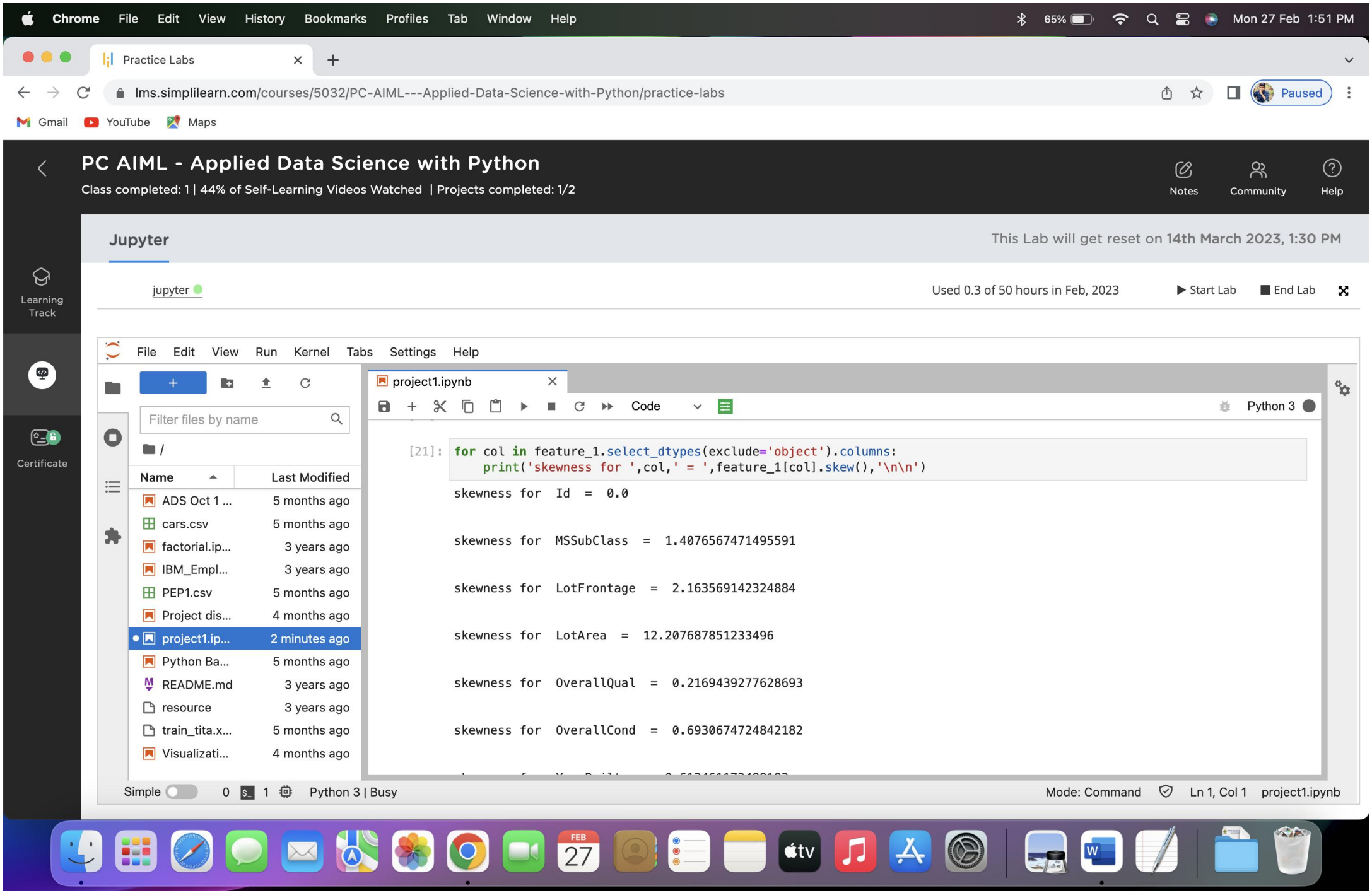
project1.ipynb
Code
Python 3
[13]: feature_2
[13]:
MSZoning Street Alley LotShape LandContour Utilities LotConfig LandSlope Neighborhood Condition1 ... GarageType GarageFin
0 RL Pave NaN Reg Lvl AllPub Inside Gtl CollgCr Norm ... Attchd F
1 RL Pave NaN Reg Lvl AllPub FR2 Gtl Veenker Feedr ... Attchd F
2 RL Pave NaN IR1 Lvl AllPub Inside Gtl CollgCr Norm ... Attchd F
3 RL Pave NaN IR1 Lvl AllPub Corner Gtl Crawfor Norm ... Detchd U
4 RL Pave NaN IR1 Lvl AllPub FR2 Gtl NoRidge Norm ... Attchd F
... ...
1455 RL Pave NaN Reg Lvl AllPub Inside Gtl Gilbert Norm ... Attchd F
1456 RL Pave NaN Reg Lvl AllPub Inside Gtl NWAmes Norm ... Attchd U
1457 RL Pave NaN Reg Lvl AllPub Inside Gtl Crawfor Norm ... Attchd F
1458 RL Pave NaN Reg Lvl AllPub Inside Gtl mes Norm ... Attchd U
1459 RL Pave NaN Reg Lvl AllPub Inside Gtl Edwards Norm ... Attchd
1460 rows × 43 columns
Simple 0 1 Python 3 | Busy
Mode: Command Ln 1, Col 1 project1.ipynb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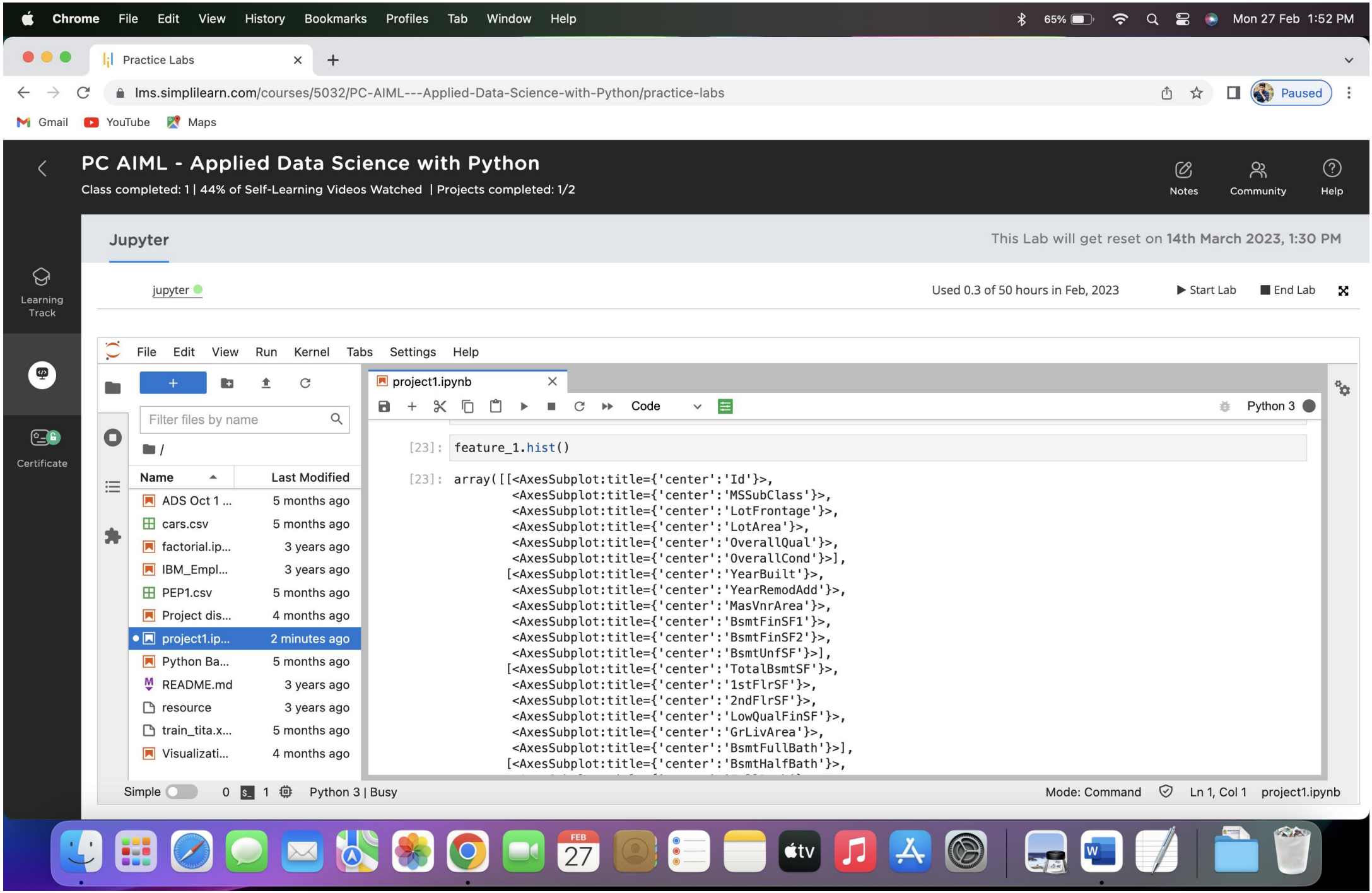
Code
Python 3
[21]:
for col in feature_1.select_dtypes(exclude='object').columns:
print('skewness for ',col,' = ',feature_1[col].skew(),'\n\n')
skewness for Id = 0.0
skewness for MSSubClass = 1.4076567471495591
skewness for LotFrontage = 2.163569142324884
skewness for LotArea = 12.207687851233496
skewness for OverallQual = 0.2169439277628693
skewness for OverallCond = 0.6930674724842182
Simple
0
1
Python 3 | Busy
Mode: Command
Ln 1, Col 1
project1.ipynb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Code
Python 3
[23]: feature_1.hist()
[23]: array([[<AxesSubplot:title={'center':'Id'}>,
<AxesSubplot:title={'center':'MSSubClass'}>,
<AxesSubplot:title={'center':'LotFrontage'}>,
<AxesSubplot:title={'center':'LotArea'}>,
<AxesSubplot:title={'center':'OverallQual'}>,
<AxesSubplot:title={'center':'OverallCond'}>],
[<AxesSubplot:title={'center':'YearBuilt'}>,
<AxesSubplot:title={'center':'YearRemodAdd'}>,
<AxesSubplot:title={'center':'MasVnrArea'}>,
<AxesSubplot:title={'center':'BsmtFinSF1'}>,
<AxesSubplot:title={'center':'BsmtFinSF2'}>,
<AxesSubplot:title={'center':'BsmtUnfSF'}>],
[<AxesSubplot:title={'center':'TotalBsmtSF'}>,
<AxesSubplot:title={'center':'1stFlrSF'}>,
<AxesSubplot:title={'center':'2ndFlrSF'}>,
<AxesSubplot:title={'center':'LowQualFinSF'}>,
<AxesSubplot:title={'center':'GrLivArea'}>,
<AxesSubplot:title={'center':'BsmtFullBath'}>],
[<AxesSubplot:title={'center':'BsmtHalfBath'}>,
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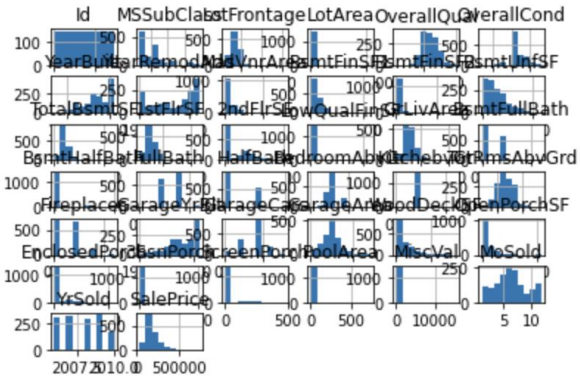
Code Python 3

```
<AxesSubplot:title={'center':'ScreenPorch'}>,
<AxesSubplot:title={'center':'PoolArea'}>,
<AxesSubplot:title={'center':'MiscVal'}>,
<AxesSubplot:title={'center':'MoSold'}>],
[<AxesSubplot:title={'center':'YrSold'}>,
<AxesSubplot:title={'center':'SalePrice'}>, <AxesSubplot:>,
<AxesSubplot:>, <AxesSubplot:>, <AxesSubplot:>]], dtype=object)
```



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