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12548059740-IRP...	5 months ago
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distribute_setup.py	11 days ago
dt.dot	a minute ago
get-pip.py	11 days ago
IE598_F19_HW1.ipynb	5 days ago
IE598_F19_HW1.py	7 days ago
IE598_F19_HW2.ip...	a minute ago

Assignment 2 - 09/08/2019

# DATA SCREENING

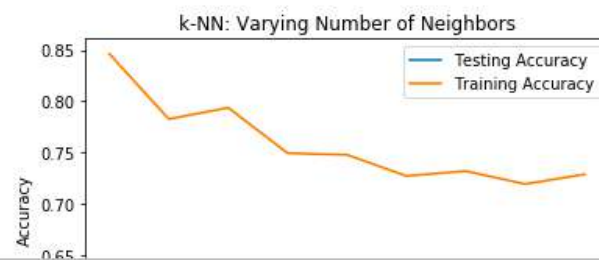
```
(900, 12)
(900, 10)
(900,)
(900, 9)
(630, 9) (630,)
```

# 1ST MODEL: k-NN CLASSIFIER

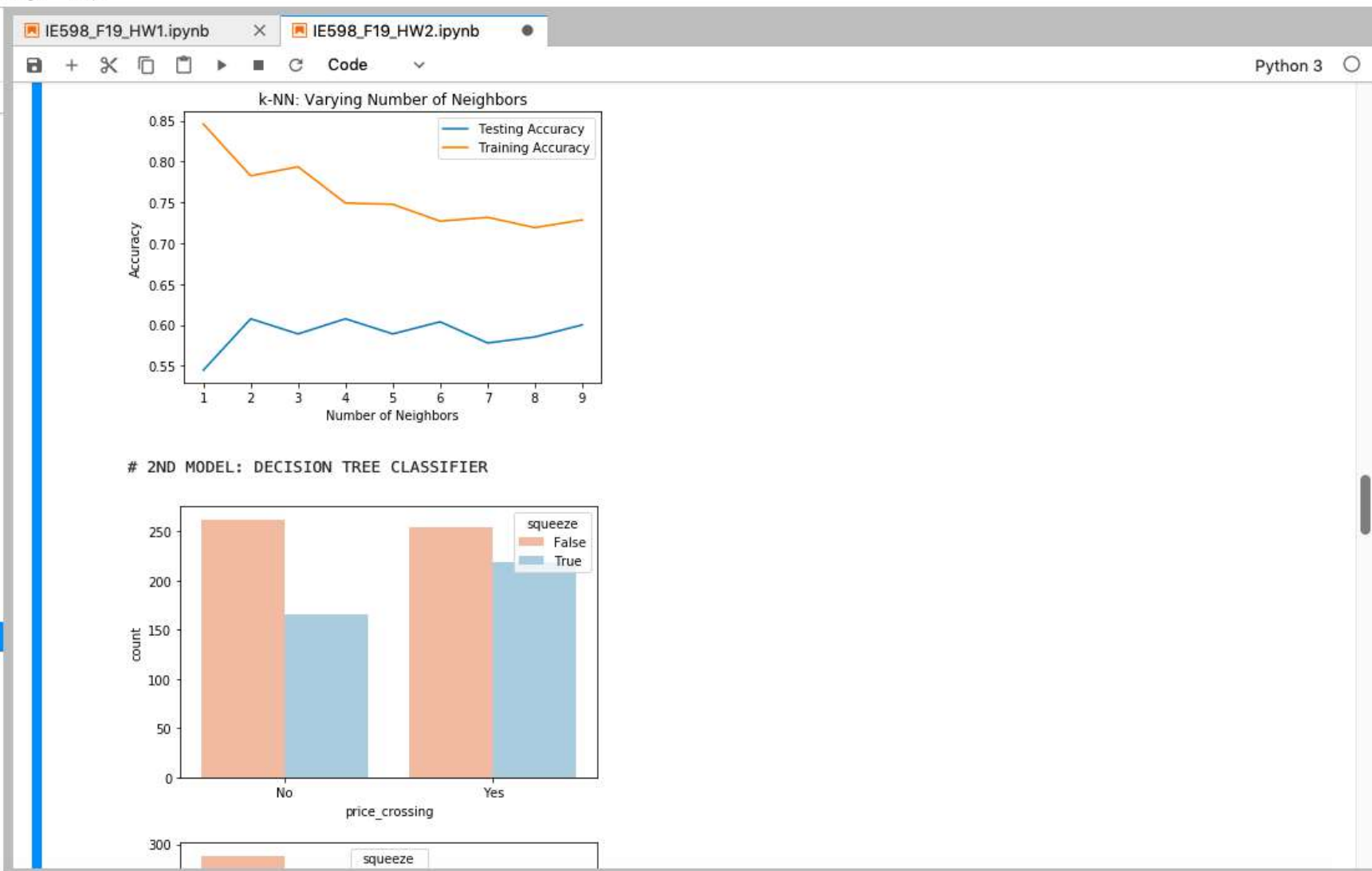
k Accuracy (Train) Accuracy (Test)

1	0.846	0.544
2	0.783	0.607
3	0.794	0.589
4	0.749	0.607
5	0.748	0.589
6	0.727	0.604
7	0.732	0.578
8	0.719	0.585
9	0.729	0.6

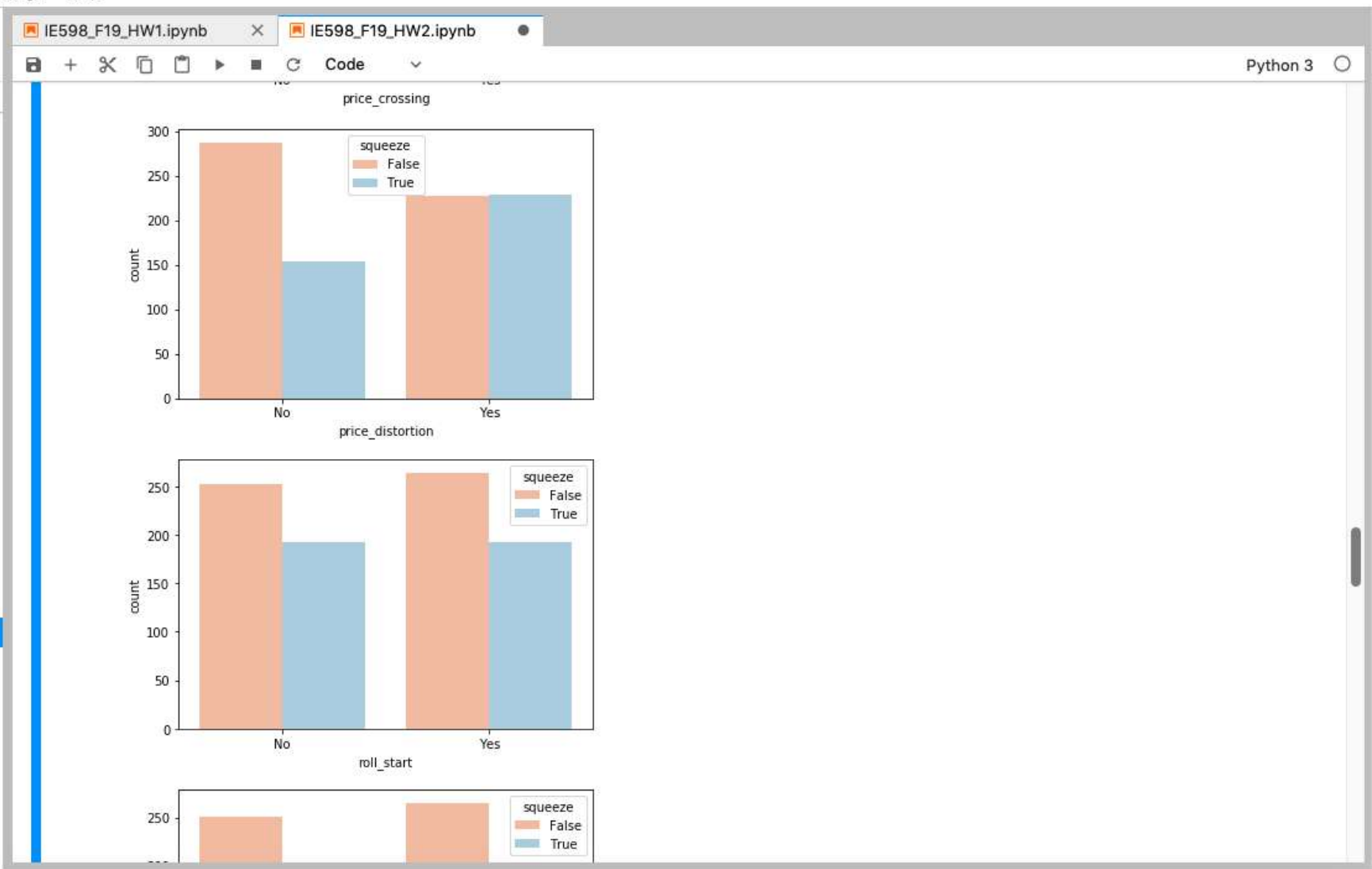
Values of k and maximum accuracy in the test sample are:  
[4. 0.60740741]

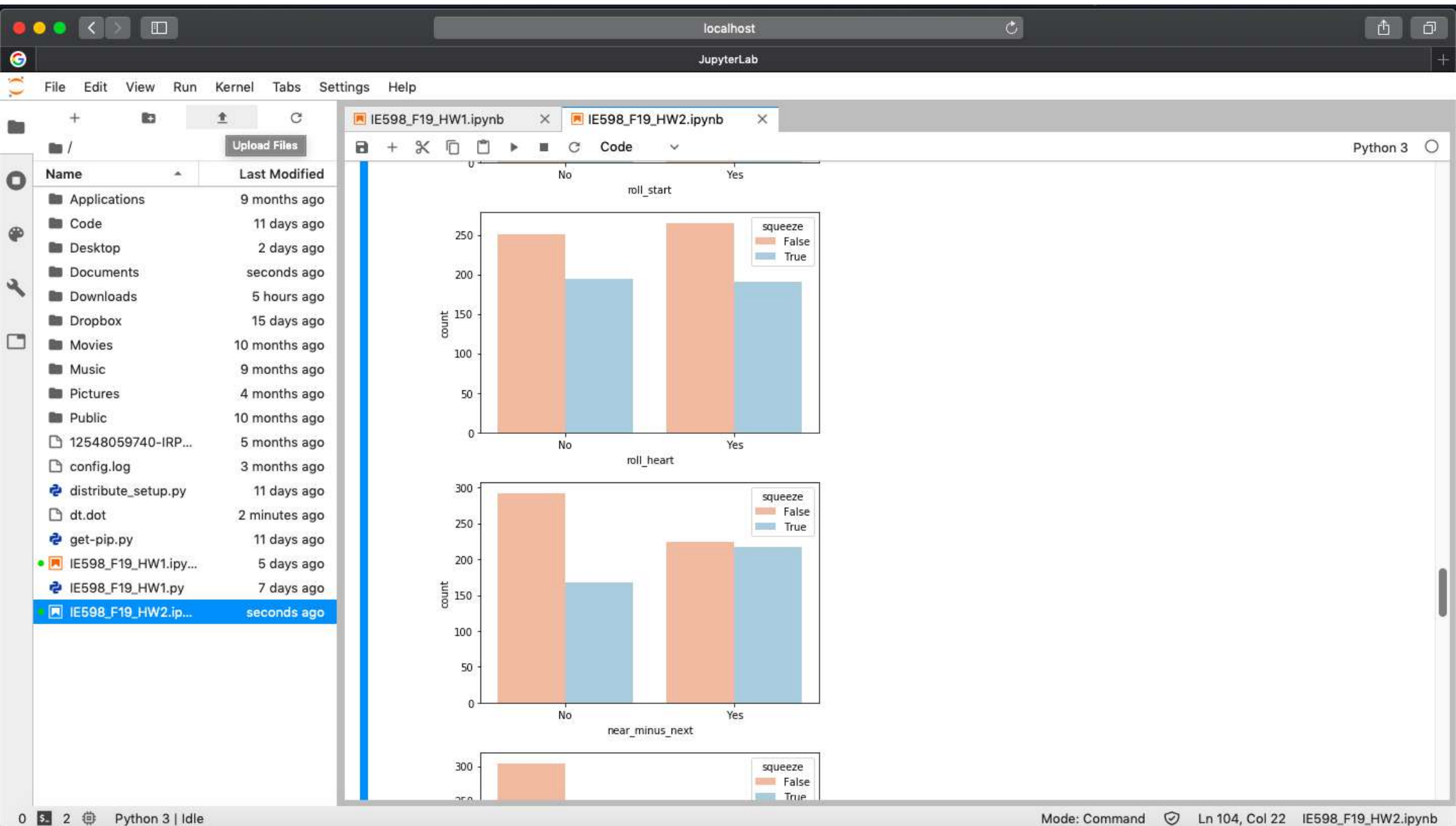


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IE598_F19_HW2.ip...	2 minutes ago



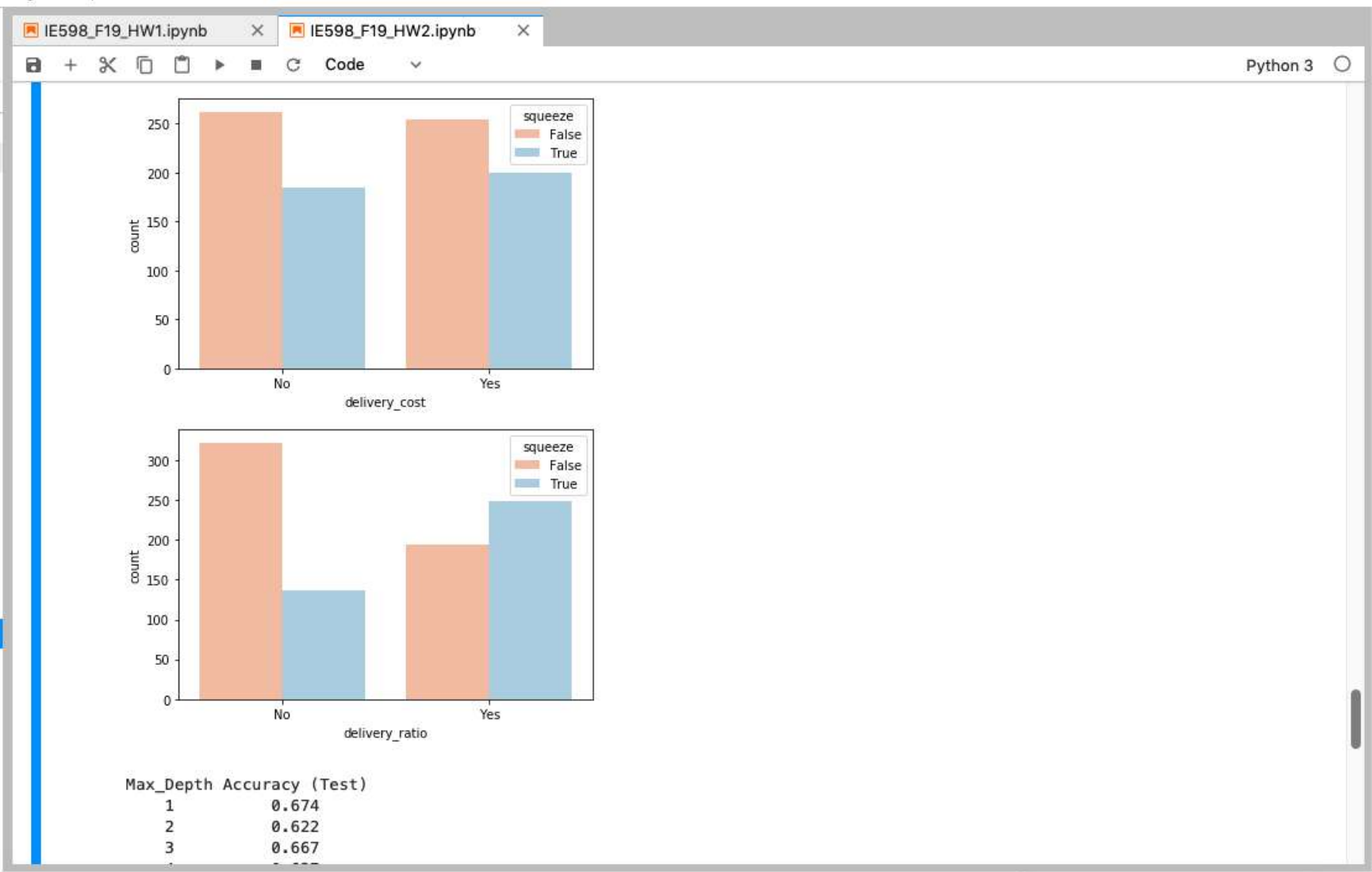


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IE598_F19_HW1.py	7 days ago
IE598_F19_HW2.ip...	seconds ago



File browser sidebar showing a list of files and folders. The 'Code' folder is selected, and the file 'IE598\_F19\_HW2.ipynb' is highlighted.

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IE598\_F19\_HW1.ipynb IE598\_F19\_HW2.ipynb

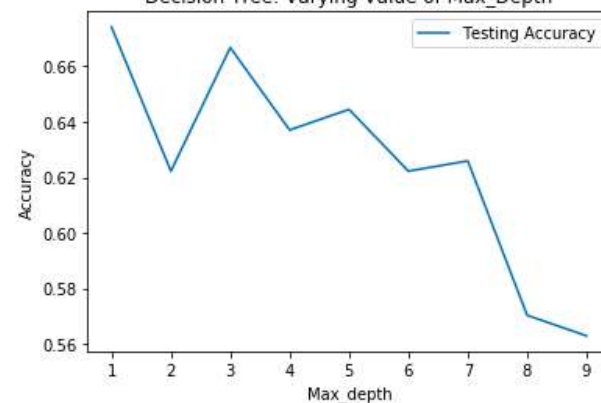
Code

Python 3

Max\_Depth Accuracy (Test)

1	0.674
2	0.622
3	0.667
4	0.637
5	0.644
6	0.622
7	0.626
8	0.57
9	0.563

Decision Tree: Varying Value of Max\_Depth



My name is: Carolina Carvalho Manhaes Leite

My NetID is: leite2

I hereby certify that I have read the University policy on Academic Integrity and that I am not in violation.

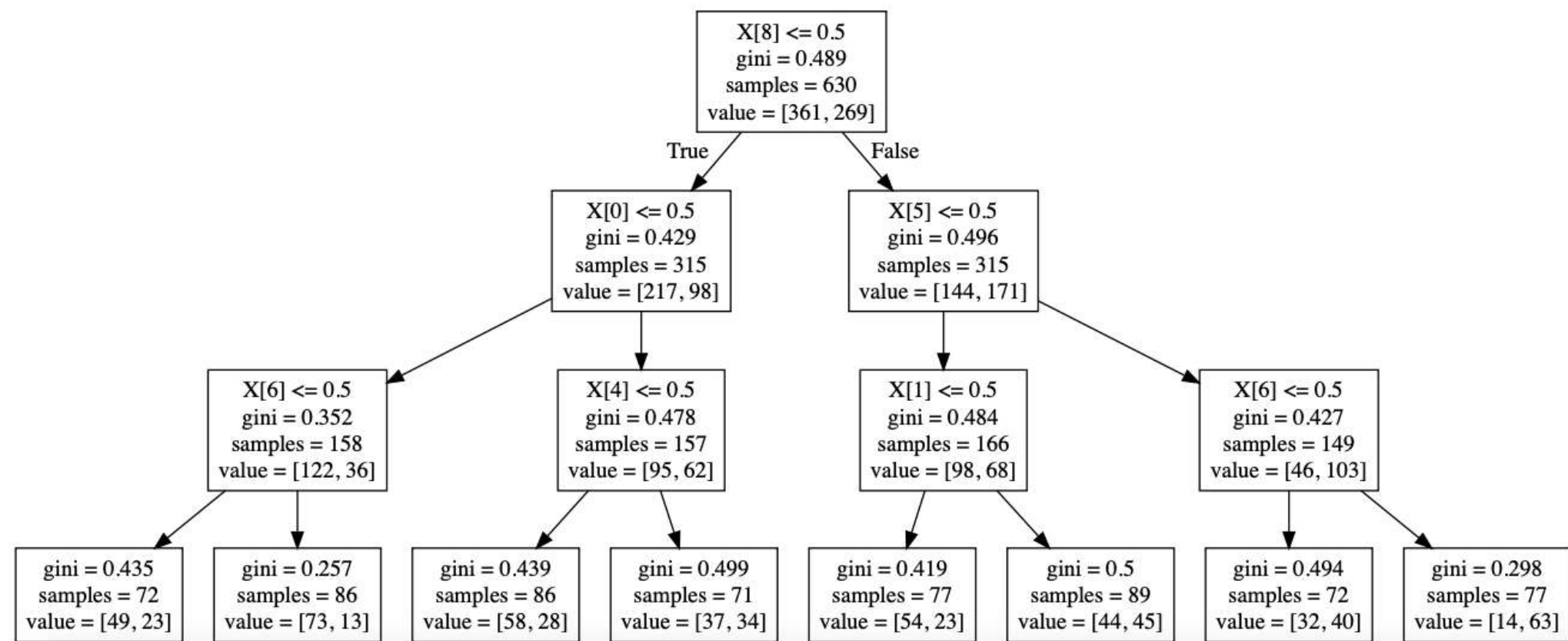
[ ]:





```
11 [label="gini = 0.5\nsamples = 89\nvalue = [44, 45]";  
9 -> 11;  
12 [label="X[6] <= 0.5\ngini = 0.427\nsamples = 149\nvalue = [46, 103]";  
8 -> 12;  
13 [label="gini = 0.494\nsamples = 72\nvalue = [32, 40]";  
12 -> 13;  
14 [label="gini = 0.298\nsamples = 77\nvalue = [14, 63]";  
12 -> 14;  
}
```

Generate Graph!



[https://github.com/leiteccml/Carolina\\_2019](https://github.com/leiteccml/Carolina_2019)