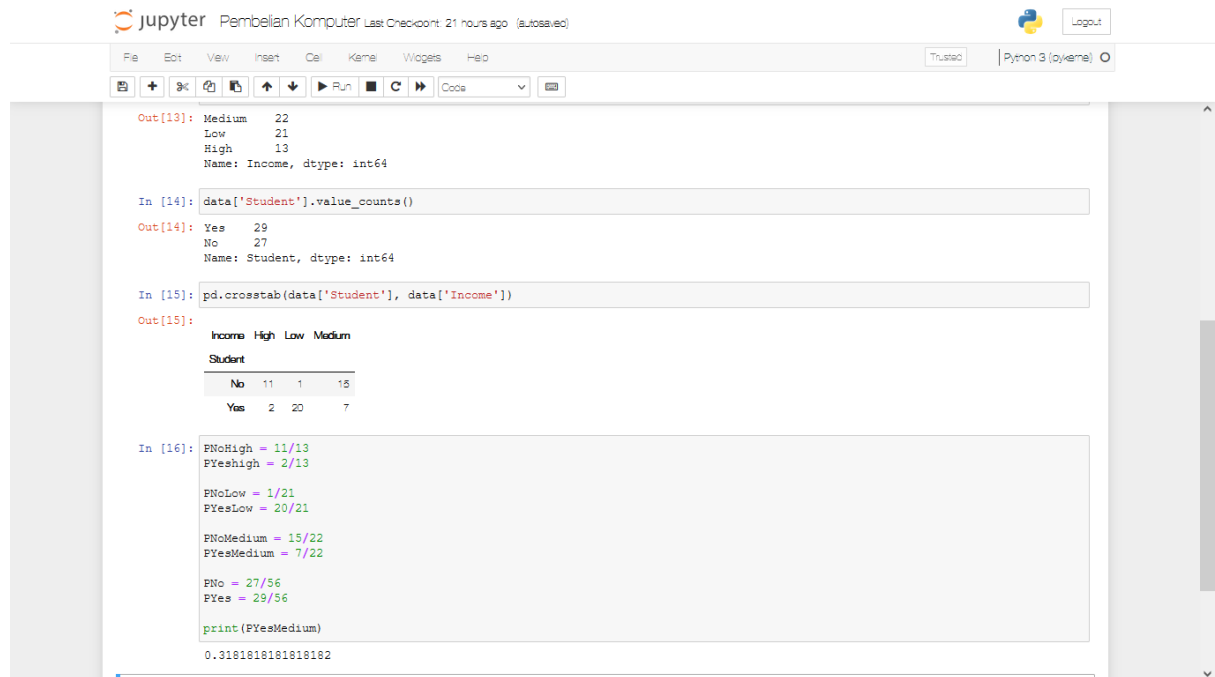


Geulis Juan Ishmah Andini

21.51.0016

## Kisi-kisi UAS

1. tingkat pembelian komputer dari Student = Yes, dengan tingkat income = Medium adalah 0.3181818181818182



Jupyter Notebook interface showing the analysis of computer purchase data. The notebook is titled "Pembelian Komputer" and is saved. The code cells show the following steps:

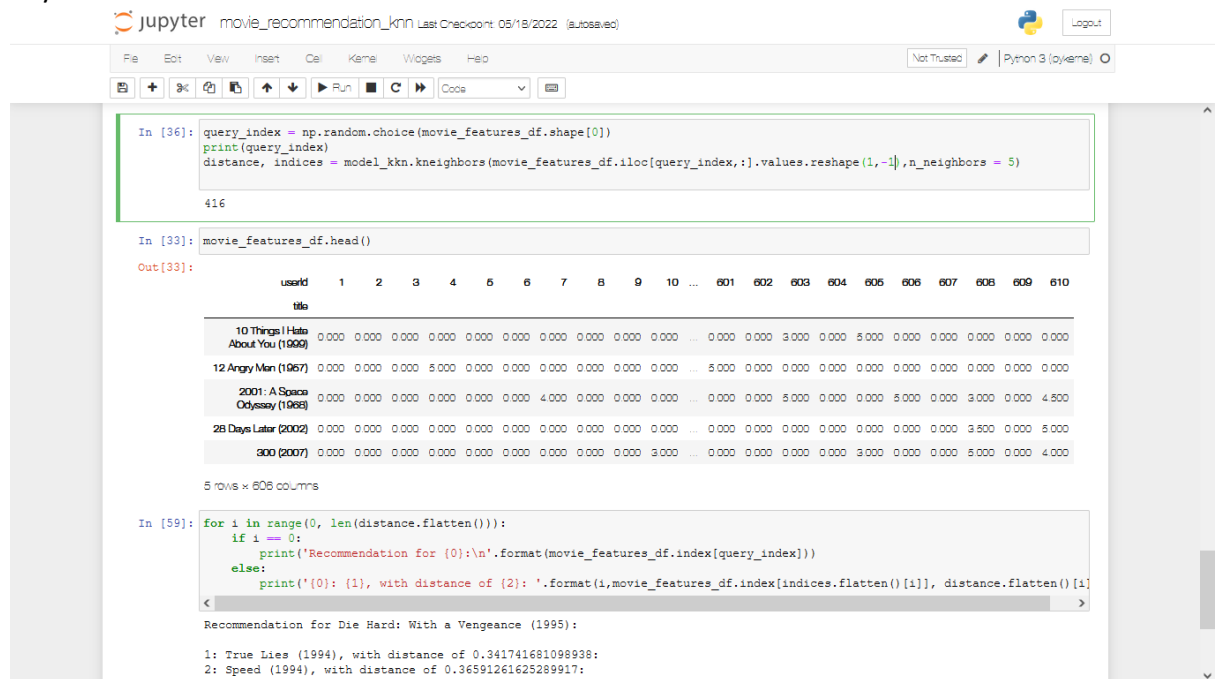
```
Out[13]: Medium    22
Low             21
High            13
Name: Income, dtype: int64

In [14]: data['Student'].value_counts()
Out[14]: Yes      29
No         27
Name: Student, dtype: int64

In [15]: pd.crosstab(data['Student'], data['Income'])
Out[15]:
Income High Low Medium
Student
No       11   1   15
Yes       2  20   7

In [16]: PNoHigh = 11/13
PYesHigh = 2/13
PNoLow = 1/21
PYesLow = 20/21
PNoMedium = 15/22
PYesMedium = 7/22
PNo = 27/56
PYes = 29/56
print(PYesMedium)
0.3181818181818182
```

2. key= 5



Jupyter Notebook interface showing a movie recommendation system using K-Nearest Neighbors (K=5). The notebook is titled "movie\_recommendation\_knn" and is saved. The code cells show the following steps:

```
In [36]: query_index = np.random.choice(movie_features_df.shape[0])
print(query_index)
distance, indices = model_knn.kneighbors(movie_features_df.iloc[query_index,:].values.reshape(1,-1), n_neighbors = 5)
416

In [33]: movie_features_df.head()
Out[33]:
   userid    1    2    3    4    5    6    7    8    9   10  ...  601  602  603  604  605  606  607  608  609  610
   title
10 Things I Hate About You (1999)  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  ...  0.000  0.000  3.000  0.000  5.000  0.000  0.000  0.000  0.000
12 Angry Men (1957)                0.000  5.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  ...  5.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
2001: A Space Odyssey (1968)        0.000  0.000  0.000  0.000  0.000  4.000  0.000  0.000  0.000  ...  0.000  0.000  5.000  0.000  0.000  5.000  0.000  3.000  0.000  4.500
28 Days Later (2002)                0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  ...  0.000  0.000  0.000  0.000  0.000  0.000  3.500  0.000  5.000
300 (2007)                          0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  3.000  ...  0.000  0.000  0.000  0.000  3.000  0.000  5.000  0.000  4.000

5 rows x 610 columns

In [59]: for i in range(0, len(distance.flatten())):
if i == 0:
print('Recommendation for {0}:'.format(movie_features_df.index[query_index]))
else:
print('{0}: {1}, with distance of {2}'.format(i, movie_features_df.index[indices.flatten()[i]], distance.flatten()[i]))

Recommendation for Die Hard: With a Vengeance (1995):
1: True Lies (1994), with distance of 0.341741681098938:
2: Speed (1994), with distance of 0.36591261625289917:
```



Getting Started

localhost:8888/notebooks/Data\_Kelahiran.ipynb#

jupyter Data Kelahiran Last Checkpoint: 33 minutes ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help

Not Trusted | Python 3 (baseenv)

25 18 1 0 1 0 0 11 090537  
70 17 1 0 0 0 1 12 206558

80 rows x 7 columns

In [30]: `y = df.sort_values('dis').head(3)`  
`y`

Out[30]:

	Usia	Kelahiran_Jes	Waktu_Kelahiran	Tekanan_darah	Kelahiran_jantung	Caesarian	dis
64	29	2	0	1	1	1	0
77	29	2	1	2	0	1	1
67	29	2	0	1	1	0	1

In [31]: `z = y["Caesarian"]`  
`z`

Out[31]:

```
54    1
77    1
67     0
Name: Caesarian, dtype: int32
```

In [32]: `np.mean(z)`

Out[32]: 0.6666666666666666

Windows taskbar: 23.38