

## ✓ 축구 이적시장 데이터를 활용한 데이터 시각화 및 머신러닝 분석

- Developed by Dr. Keungoui KIM
- <https://github.com/awekim>

### 1. 파이썬 프로그래밍

```
print("Hello")
```

⇒ Hello

```
1+1
```

⇒ 2

```
import pandas as pd
```

Hi

### ✓ Hi

Hi

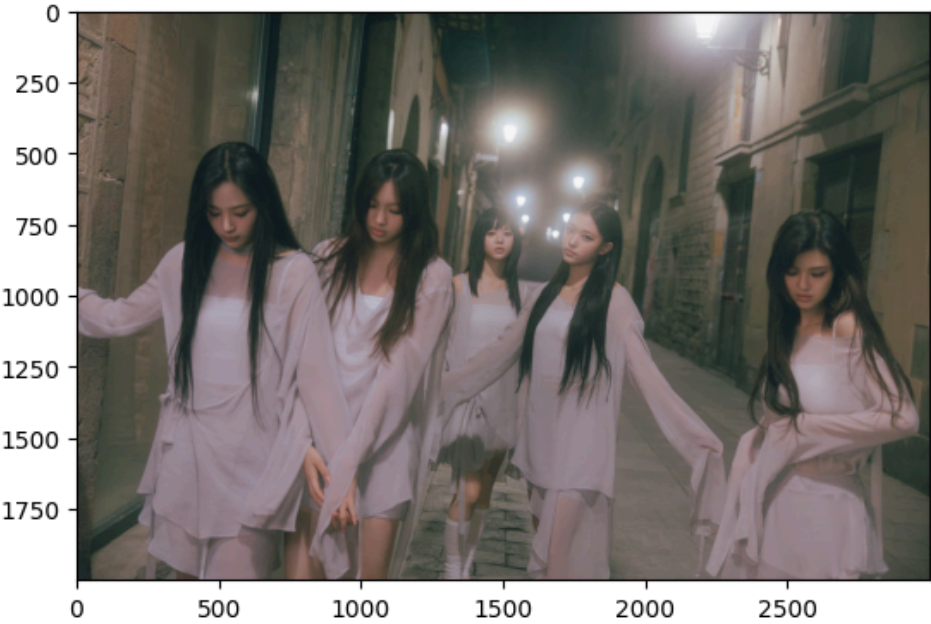
Hi

My name is **Big Data**

```
/content/drive/MyDrive/PythonFootball/01_Python
```

```
import matplotlib.pyplot as plt
import matplotlib.image as mpimg
img = mpimg.imread('/content/drive/MyDrive/PythonFootball/01_Python/nj.jpg')
plt.imshow(img)
```

 <matplotlib.image.AxesImage at 0x7ce73432d240>



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- Quotation 1
- Quotation 2
- Quotation 3

[HGU](#)

[Hisnet](#)

## ✓ Welcome to [Handong Global University](#).

### Introduction

- Name: Keungoui **KIM**
- Age: 21
- MBTI: ABCD
- Major: Communication
- Tier: ??

## ✓ 데이터 구조

```
my_list = [1, 1, 4, 5, "Yes", [2, 4]]  
my_list
```

```
⇒ [1, 1, 4, 5, 'Yes', [2, 4]]
```

```
list("Yes")
```

```
⇒ ['Y', 'e', 's']
```

```
type(my_list)
```

```
⇒ list
```

```
my_list.append("HGU")  
my_list
```

```
⇒ [1, 1, 4, 5, 'Yes', [2, 4], 'HGU']
```

```
len(my_list)
```

```
⇒ 7
```

```
num_list = [1, 2, 3, 4]  
num_list
```

```
⇒ [1, 2, 3, 4]
```

```
aa, bb, cc, dd = num_list  
print(aa, bb, cc, dd)
```

```
⇒ 1 2 3 4
```


UU

 4

```
midterm_score = [84, 23, 92, 17, 88]
assignment_score = [88, 87, 90, 88, 89]
final_score = [71, 99, 78, 89, 82]

total_score = [midterm_score, assignment_score, final_score]
total_score
```

```
my_dict = {'Name': 'Kim',
           'Nationality': 'Korea',
           'Age': 21,
           'BigData': 'A+'}
print(my_dict)
```

 {'Name': 'Kim', 'Nationality': 'Korea', 'Age': 21, 'BigData': 'A+'}

```
type(my_dict)
```

```
len(my_dict)
```

 4

```
my_dict.keys()
```

 dict\_keys(['Name', 'Nationality', 'Age', 'BigData'])


```
my_dict.values()
```

 dict\_values(['Kim', 'Korea', 21, 'A+'])


```
my_dict = {'Name': 'Kim', 'Nationality': 'Korea', 'Age': 21, 'BigData': 'A+'}
my_dict['gender'] = 'M'
my_dict['BigData'] = 'B+'
print(my_dict)
```

## ✓ 인덱싱 & 슬라이싱

```
my_list = ["Yes", "No", 1, 1, 4, 5, [2, 4]]
my_list
```

 ['Yes', 'No', 1, 1, 4, 5, [2, 4]]

```
my_list[0]
```

 'Yes'

```
my_list[0] + my_list[1]
```

↔ 'YesNo'

```
my_list[2] + my_list[3]
```

↔ 2

```
my_list[0:2]
```

↔ ['Yes', 'No']

```
my_list[:2]
```

↔ ['Yes', 'No']

```
my_list[-1]
```

↔ [2, 4]

```
my_list[-1][0]
```

↔ 2

## ✓ 모듈

```
import pandas
```

```
pandas.
```

```
import pandas as pd
```

```
pd.
```

```
from pandas import DataFrame
```

```
DataFrame.
```

```
import pandas as pd
```

```
pd.DataFrame.
```

## ✓ 조건문

```
a = 1
if a == 1:
    print("Hello")
    print("I'm Kim")
```

```
a = 2
if a == 1:
    print("Hello")
    print("I'm Kim")
```

```
a = 2
if a ==1:
    print("Hello")
print("I'm Kim")
```

```
temperature = int(input("What is your body temperature? "))

if temperature >= 37.5:
    print("Need PCR test.")
else:
    print("You are safe.")
```

```
x=11
if x>0 and x<10:
    print("x is greater than 0 and less than 10.")
```

## ✓ 반복문

```
i = 0
while i < 10:
    print(i)
    i = i + 1
print('last value: ', i)
```

```
value = 100
while 0 < value:
    value = value-5
    print(value)
print("last value=",value)
```

```
value = 100
while 0 < value:
    print(value)
    value = value-5
print("last value=",value)
```

```
i = 1
while i < 10:
    print(i)
    i=i-1
print("last i", i)
```

```
for i in [1,2,3,4,5]:
    print(i)
```

```
for i in range(5):
    print(i)
```

```
for i in range(10):
    print(i)
```

```
for i in ['Apple', 'Samsung', 'Google', 'LG']:
    print(i)
    print('i')
```