

Union_Budget_Data_Analytics_Project

- A small and simple data analytics project on finding insights to the Indian union budget of year 2021.
- Each country has a financial budget that describes the government's spending capacity in different sectors of the economy. In this article, I will walk you through the task of financial budget analysis with Python.
- What is a Financial Budget?
There are so many Data Analysts today that come from a non-coding background. If you are from a commerce background then you may know what is a financial budget. In short, it is a detailed report on the income and expenditure of the government for a financial year.
- In the section below, I will take you through a tutorial on how to perform the task of Financial Budget analysis with Python.
- Financial Budget Analysis with Python
I hope you now have understood what is a financial budget and when you may need to analyze it as a data analyst. Let's see how we can perform the task of financial budget analysis with Python. I will start this task by importing the necessary Python libraries and a dataset that contains data about the financial budget of India for the year 2021:
- see other files for codes.
- I have used Jupyter Notebook.
- Code snippets along with output:

```
In [2]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
data = pd.read_csv("india_budget_2021.csv")
data.head()
```

Out[2]:

	Department /Ministry	Fund allotted(in ₹crores)
0	MINISTRY OF AGRICULTURE	131531.19
1	DEPARTMENT OF ATOMIC ENERGY	18264.89
2	MINISTRY OF AYURVEDA, YOGA	2970.30
3	MINISTRY OF CHEMICALS AND FERTILISER	80714.94
4	MINISTRY OF CIVIL AVIATION	3224.67

```

: data = data.iloc[[0,8,11,14,18,23,41,42,43],:]
row = {'Department /Ministry': 'OTHERS', 'Fund allotted(in ₹crores)': 592971.0800000001}
data = data.append(row, ignore_index = True)
print(data)

```

	Department /Ministry	Fund allotted(in ₹crores)
0	MINISTRY OF AGRICULTURE	131531.19
1	MINISTRY OF CONSUMER AFFAIRS	256948.40
2	MINISTRY OF DEFENCE	478195.62
3	MINISTRY OF EDUCATION	93224.31
4	MINISTRY OF FINANCE	1386273.30
5	MINISTRY OF HOME AFFAIRS	166546.94
6	MINISTRY OF RAILWAYS	110054.64
7	MINISTRY OF ROAD TRANSPORT AND HIGHWAY	118101.00
8	MINISTRY OF RURAL DEVELOPMENT	133689.50
9	OTHERS	592971.08

```

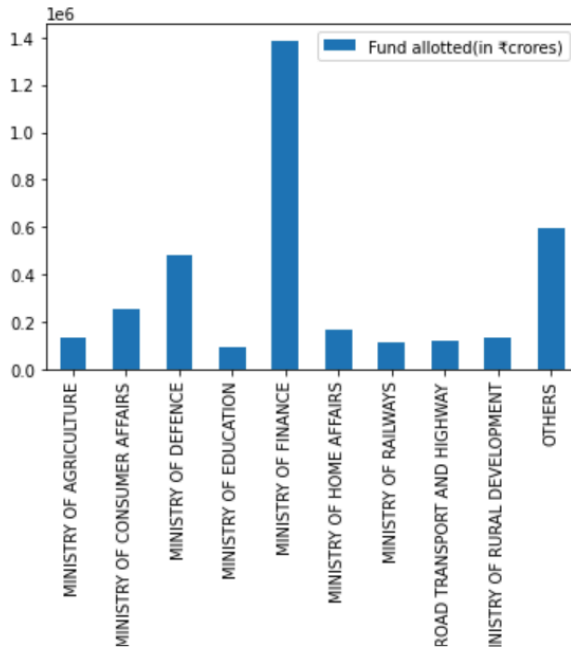
In [6]: data.plot.bar(x='Department /Ministry', y='Fund allotted(in ₹crores)')

```

```

Out[6]: <AxesSubplot:xlabel='Department /Ministry'>

```



```

In [7]: df = data["Fund allotted(in ₹crores)"]
labels = data["Department /Ministry"]
plt.figure(figsize=(7,7))
plt.pie(df, labels=labels, autopct='%1.1f%%', startangle=90, pctdistance=0.85, shadow =True)
central_circle = plt.Circle((0, 0), 0.5, color='white')
fig = plt.gcf()
fig.gca().add_artist(central_circle)
plt.rc('font', size=12)
plt.title("Distribution of The Budget", fontsize=20)
plt.show()

```

Distribution of The Budget

