

```
import pandas as pd
import numpy as np

# Load the data
data = pd.read_csv('50_Startups.csv')
```

```
print("First few rows of the dataset:\n", data.head())
```

First few rows of the dataset:

	R&D Spend	Administration	Marketing Spend	State	Profit
0	165349.20	136897.80	471784.10	New York	192261.83
1	162597.70	151377.59	443898.53	California	191792.06
2	153441.51	101145.55	407934.54	Florida	191050.39
3	144372.41	118671.85	383199.62	New York	182901.99
4	142107.34	91391.77	366168.42	Florida	166187.94

```
print("\nData Information:\n")
print(data.info())
```

Data Information:

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 50 entries, 0 to 49
Data columns (total 5 columns):
#   Column                Non-Null Count  Dtype
---  -
0   R&D Spend              50 non-null    float64
1   Administration         50 non-null    float64
2   Marketing Spend        50 non-null    float64
3   State                  50 non-null    object
4   Profit                 50 non-null    float64
dtypes: float64(4), object(1)
memory usage: 2.1+ KB
None
```

```
print("\nSummary Statistics:\n", data.describe())
```

Summary Statistics:

	R&D Spend	Administration	Marketing Spend	Profit
count	50.000000	50.000000	50.000000	50.000000
mean	73721.615600	121344.639600	211025.097800	112012.639200
std	45902.256482	28017.802755	122290.310726	40306.180338
min	0.000000	51283.140000	0.000000	14681.400000
25%	39936.370000	103730.875000	129300.132500	90138.902500
50%	73051.080000	122699.795000	212716.240000	107978.190000
75%	101602.800000	144842.180000	299469.085000	139765.977500
max	165349.200000	182645.560000	471784.100000	192261.830000

```
rd_mean = np.mean(data['R&D Spend'])
rd_median = np.median(data['R&D Spend'])
rd_mode = data['R&D Spend'].mode()[0]
```

```
print("\nR&D Spend - Mean:", rd_mean)
print("R&D Spend - Median:", rd_median)
print("R&D Spend - Mode:", rd_mode)
```

R&D Spend - Mean: 73721.6156
 R&D Spend - Median: 73051.08
 R&D Spend - Mode: 0.0

Start coding or generate with AI.

