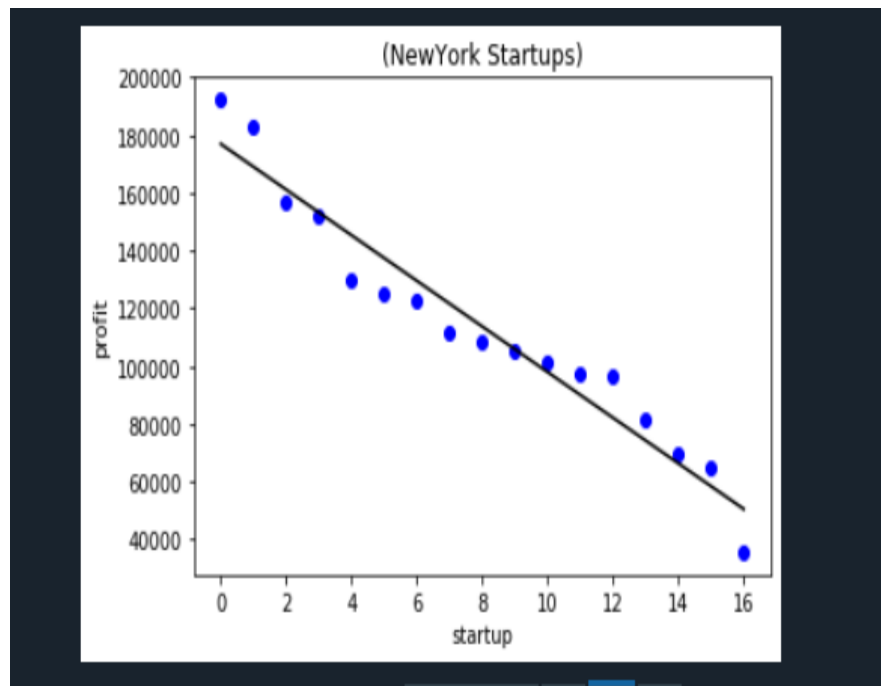OUTPUT:

NEWYORK:

```
Console 58/A  ✕

Python 3.7.6 (default, Jan  8 2020, 16:21:45) [MSC v.1916 32 bit (Intel)]
Type "copyright", "credits" or "license" for more information.

IPython 7.12.0 -- An enhanced Interactive Python.
        State      Profit
0    New York  192261.83
3    New York  182901.99
5    New York  156991.12
8    New York  152211.77
15   New York  129917.04
17   New York  125370.37
19   New York  122776.86
21   New York  111313.02
24   New York  108552.04
27   New York  105008.31
29   New York  101004.64
31   New York   97483.56
35   New York   96479.51
38   New York   81229.06
43   New York   69758.98
45   New York   64926.08
48   New York   35673.41
```
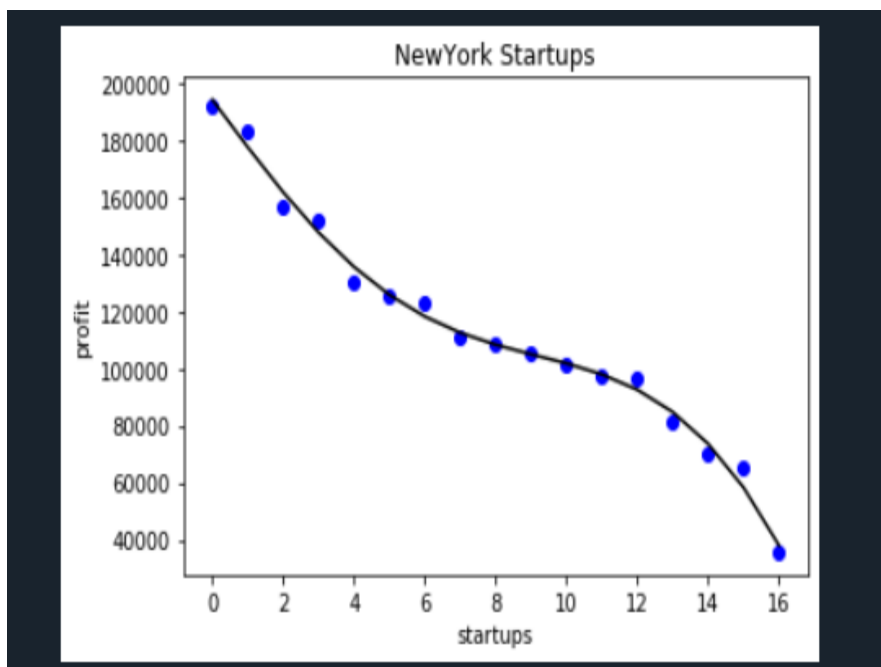
```
Profit
[192261.83 182901.99 156991.12 152211.77 129917.04 125370.37 122776.86
 111313.02 108552.04 105008.31 101004.64  97483.56  96479.51  81229.06
  69758.98  64926.08  35673.41]
Startup Expendeture
[[ 0]
 [ 1]
 [ 2]
 [ 3]
 [ 4]
 [ 5]
 [ 6]
 [ 7]
 [ 8]
 [ 9]
 [10]
 [11]
 [12]
 [13]
 [14]
 [15]
 [16]]
```

Linear Regression

(NewYork Startups)

Polynomial Regression

NewYork Startups

CALIFORNIA:

```
        State      Profit
1    California  191792.06
6    California  156122.51
9    California  149759.96
11   California  144259.40
13   California  134307.35
16   California  126992.93
20   California  118474.03
25   California  107404.34
32   California   97427.84
34   California   96712.80
37   California   89949.14
39   California   81005.76
40   California   78239.91
42   California   71498.49
44   California   65200.33
47   California   42559.73
49   California   14681.40
```
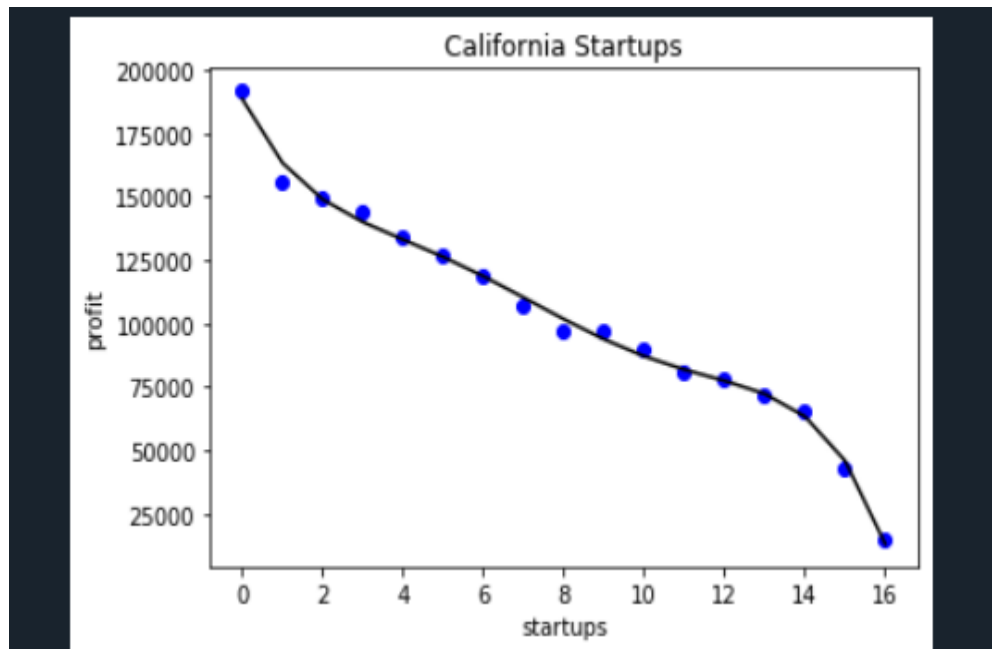
```
Profit
[191792.06 156122.51 149759.96 144259.4  134307.35 126992.93 118474.03
 107404.34  97427.84  96712.8   89949.14  81005.76  78239.91  71498.49
  65200.33  42559.73  14681.4 ]
startups
[[ 0]
 [ 1]
 [ 2]
 [ 3]
 [ 4]
 [ 5]
 [ 6]
 [ 7]
 [ 8]
 [ 9]
 [10]
 [11]
 [12]
 [13]
 [14]
 [15]
 [16]]
```

Linear Regression
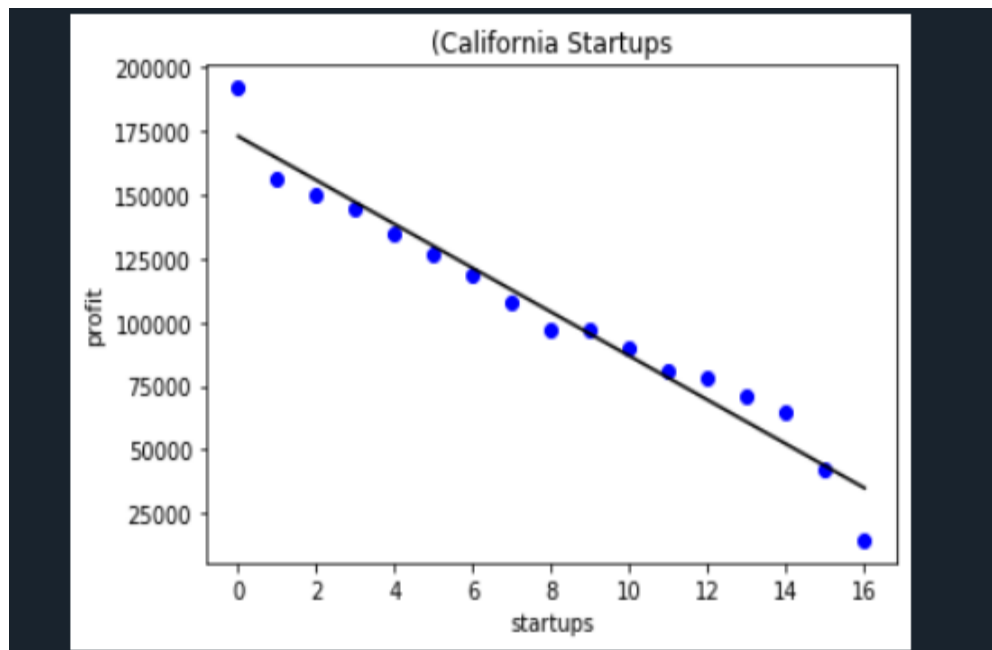
Polynomial Regression

PREDICTION:

Prediction Of Future Profit (NEWYORK
[-430070.72558635]
Prediction Of Future Profit (CALIFORNIA)
[-3518268.0915583]