Assignment 1
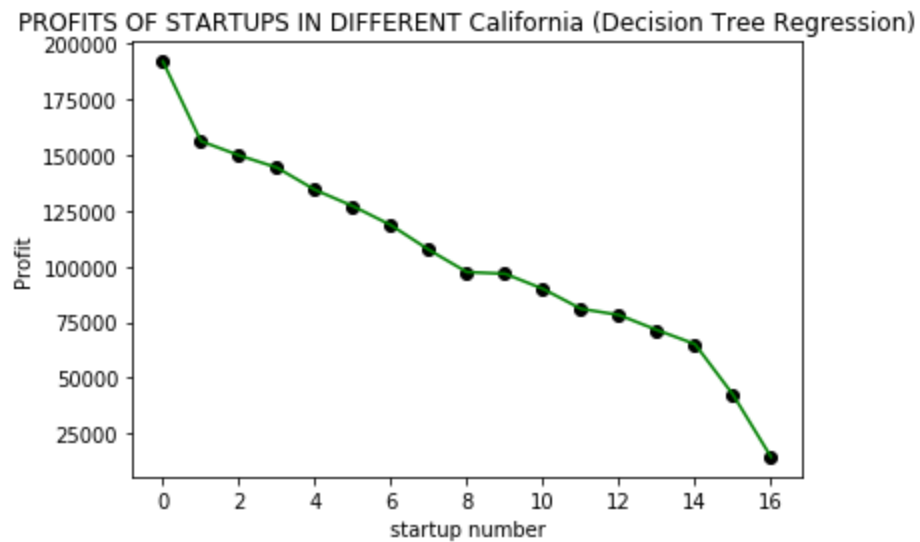
```
In [7]: runfile('C:/Users/Ali/Desktop/Machine Learning/assignment 2/untitled1.py',
wdir='C:/Users/Ali/Desktop/Machine Learning/assignment 2')
[ 0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16]
         State      Profit
1    California  191792.06
6    California  156122.51
9    California  149759.96
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
```
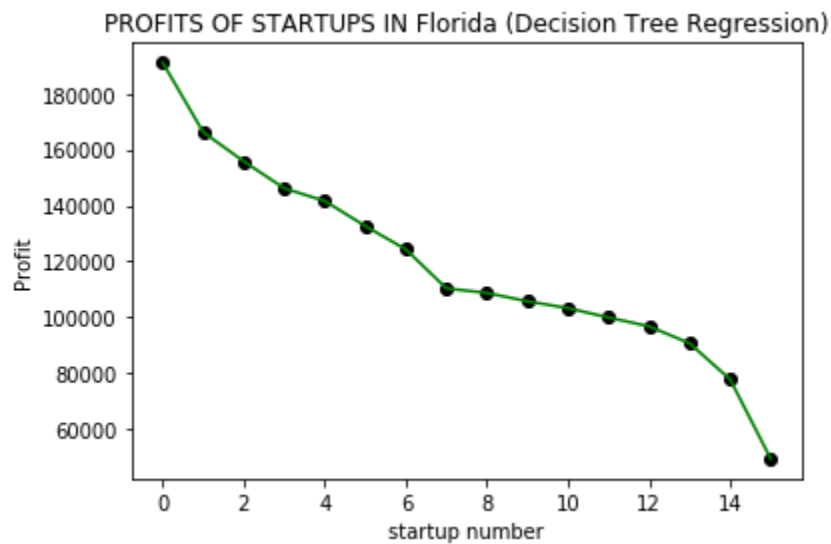

PROFITS OF STARTUPS IN DIFFERENT California (Decision Tree Regression)

Similarly;

```
       State     Profit
2    Florida  191050.39
4    Florida  166187.94
7    Florida  155752.60
10   Florida  146121.95
12   Florida  141585.52
14   Florida  132602.65
18   Florida  124266.90
22   Florida  110352.25
23   Florida  108733.99
26   Florida  105733.54
28   Florida  103282.38
30   Florida   99937.59
33   Florida   96778.92
36   Florida   90708.19
41   Florida   77798.83
46   Florida   49490.75
```

PROFITS OF STARTUPS IN Florida (Decision Tree Regression)

RESULT:

The startups in California will make more profit in the future as shown by predictions.