

## **ASSIGNMENT – 1**

Assignment Date	10 September 2022
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Student Roll Number	95071915002
Maximum Marks	2 Marks

## **The case of 50 Startups**

### **Overview**

In this article, we will be exploring the profit from the startup's dataset with the features available to us. We're using the 50-startups dataset for this problem statement

## How do startups work?

Well, we can say that startups pipeline operates on the same principles which are similar to other MNCs the major difference between both of them is that on the one hand startups work to make products that are beneficial for the customers on a small scale while other established companies do that work on a large scale by re-doing something which is already being done. How startups are being funded?

## About the 50 startups dataset

This particular dataset holds data from **50 startups in New York, California, and Florida**. The features in this dataset are **R&D spending, Administration Spending, Marketing Spending, and location features**, while the target variable is: **Profit**.

- 1. R&D spending:** The amount which startups are spending on Research and development.
- 2. Administration spending:** The amount which startups are spending on the Admin panel.
- 3. Marketing spending:** The amount which startups are spending on marketing strategies.

**4. State:** To which state that particular startup belongs.

**5. Profit:** How much profit that particular startup is making.

**Dataset:** [50-Startup-Dataset](#)

**Challenge:**

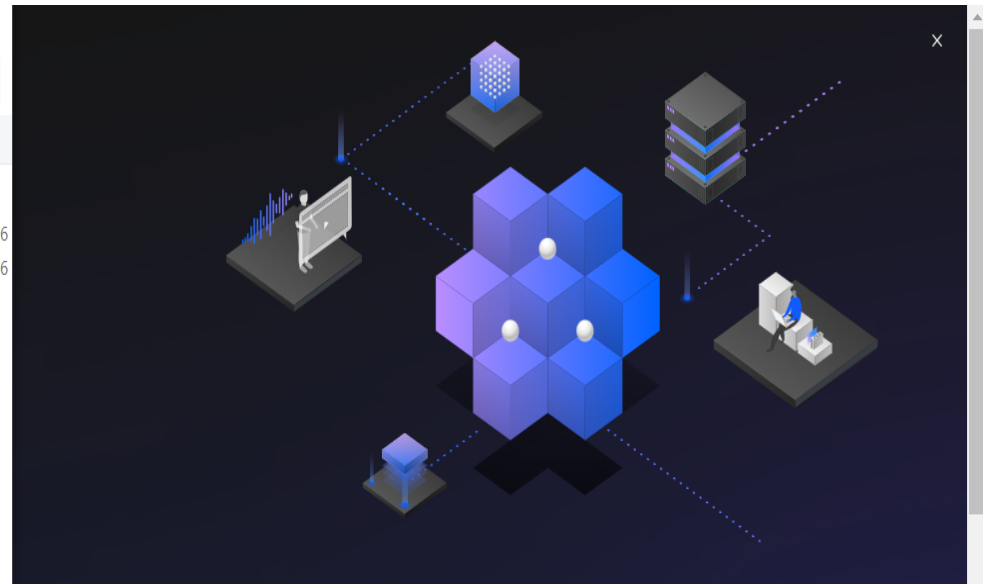
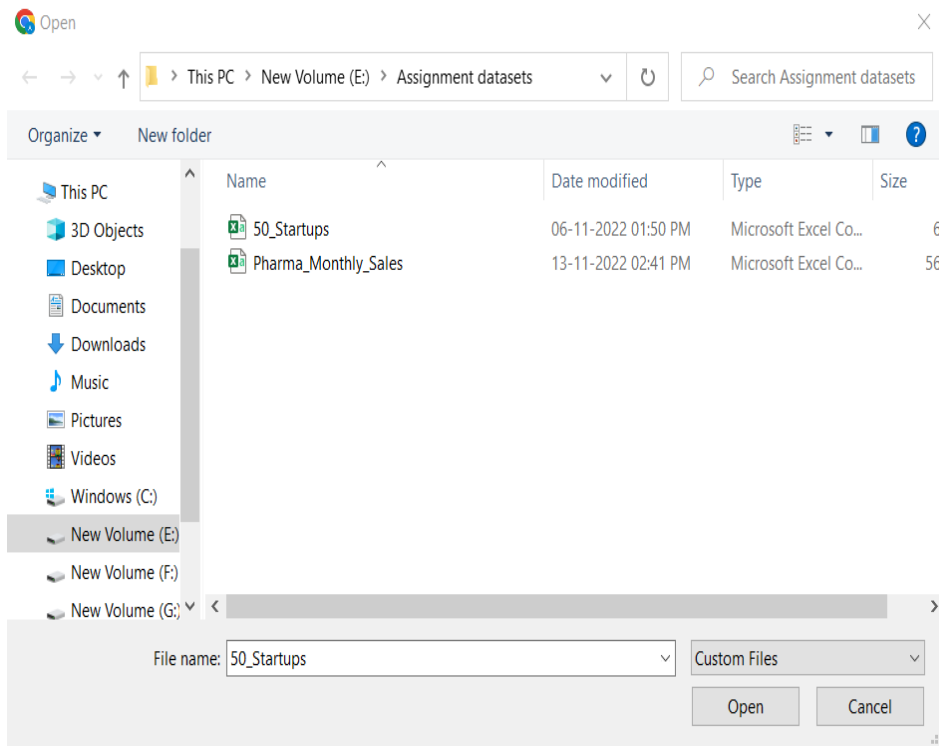
Upload the dataset to Cognos Analytics, explore and visualize the dataset

## Uploading the Dataset:

### Step 1 :

The screenshot displays the IBM Cognos Analytics with Watson user interface. At the top, a dark blue header bar contains the text "IBM Cognos Analytics with Watson" on the left, a notification badge with the number "354" in the center, and a search bar with the placeholder text "Search content" on the right. To the right of the search bar are icons for help, notifications, and user profile. Below the header, a light gray sidebar on the left lists navigation options: "Home" (selected), "+ New", "Upload data" (with an upward arrow icon), "Content", "Recent" (with a clock icon and a right arrow), and "Manage" (with a person icon). The main content area features a large dark blue banner with the text "Cognos Analytics with Watson." and a sub-header "Taking a look at our introduction video, product tour and Getting". Below this, a blue button labeled "Take a product tour" is visible. The banner also contains an isometric illustration of data cubes, a server stack, and a person at a desk. At the bottom of the interface, three light gray cards are displayed: "Prepare data" (with a circuit icon and description: "Use data modules to clean and connect data from multiple resources."), "Exploration" (with a diamond icon and description: "Quickly find unbiased answers by identifying trends in your data with data exploration."), and "Present data" (with a bar chart icon and description: "Create sophisticated, multi-page, multi-query dashboards, reports, or stories.").

## Step 2 :



### Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.

### Prepare data

Use data modules to clean and connect data from multiple resources.

### Exploration

Quickly find unbiased answers by identifying trends in your data with data exploration.

### Present data

Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

## Analyzing 50\_Startups.csv

Cancel Details

### Select sources

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⬆️

🔍 Type any text to filter items in this folder

📁 Data Modules  
11/13/2022, 10:21 PM

⬆️ 50\_Startups.csv  
11/15/2022, 2:00 PM

⬆️ IPL Ball-by-Ball 2008-2020.csv  
11/9/2022, 8:56 PM

📅 IPL dashboard  
11/13/2022, 11:37 AM

⬆️ IPL Matches 2008-2020.csv  
11/9/2022, 8:54 PM

⬆️ Olympic Events.xlsx  
11/3/2022, 12:06 PM

⬆️ Olympic Medals.xlsx  
11/3/2022, 12:07 PM

📅 Pharma exploration  
11/14/2022, 12:31 AM

📅 Pharma Sales dashboard  
11/15/2022, 12:25 PM

⬆️ Pharma\_Monthly\_Sales.csv

**Filter by**

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IBM Cognos Analytics with Watson

New data module

35

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Properties

Data module

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New data module

Navigation paths

50\_Startups.csv

# Row Id

R&D Spend

Administration

Marketing Spend

State

Profit

Grid

Relationships

Custom tables

↕	Row Id	R&D Spend	Administration	Marketing Spend	State	Profit
	1	165349.2	136897.8	471784.1	New York	192261.83
	2	162597.7	151377.59	443898.53	California	191792.06
	3	153441.51	101145.55	407934.54	Florida	191050.39
	4	144372.41	118671.85	383199.62	New York	182901.99
	5	142107.34	91391.77	366168.42	Florida	166187.94
	6	131876.9	99814.71	362861.36	New York	156991.12
	7	134615.46	147198.87	127716.82	California	156122.51
	8	130298.13	145530.06	323876.68	Florida	155752.6
	9	120542.52	148718.95	311613.29	New York	152211.77
	10	123334.88	108679.17	304981.62	California	149759.96
	11	101913.08	110594.11	229160.95	Florida	146121.95
	12	100671.96	91790.61	249744.55	California	144259.4
	13	93863.75	127320.38	249839.44	Florida	141585.52
	14	91992.39	135495.07	252664.93	California	134307.35

## Add a data source to explore



My content

Team content



Name	Type	Last Accessed
Data Modules	Folder	11/13/2022, 10:21 PM
50_Startups.csv <span>CSV</span>	Uploaded file	11/15/2022, 2:00 PM
IPL Ball-by-Ball 2008-2020.csv <span>CSV</span>	Uploaded file	11/9/2022, 8:56 PM
IPL Matches 2008-2020.csv <span>CSV</span>	Uploaded file	11/9/2022, 8:54 PM
Olympic Events.xlsx <span>xlsx</span>	Uploaded file	11/3/2022, 12:06 PM
Olympic Medals.xlsx <span>xlsx</span>	Uploaded file	11/3/2022, 12:07 PM
Pharma_Monthly_Sales.csv <span>CSV</span>	Uploaded file	11/13/2022, 6:22 PM
sales.csv <span>CSV</span>	Uploaded file	11/2/2022, 12:26 PM
US Superstore data.xls <span>xls</span>	Uploaded file	11/6/2022, 10:13 AM

Cancel

Add



## Data Exploration :

Create +

Cards

Data relationships

Select a starting point

Skip

Start with any column. You can always change it later.

Enter data column. Not sure? Try Profit, Marketing Spend

Try starting with one of these...

Profit

Marketing Spend

Administration

R&D Spend

## Explore data relationships

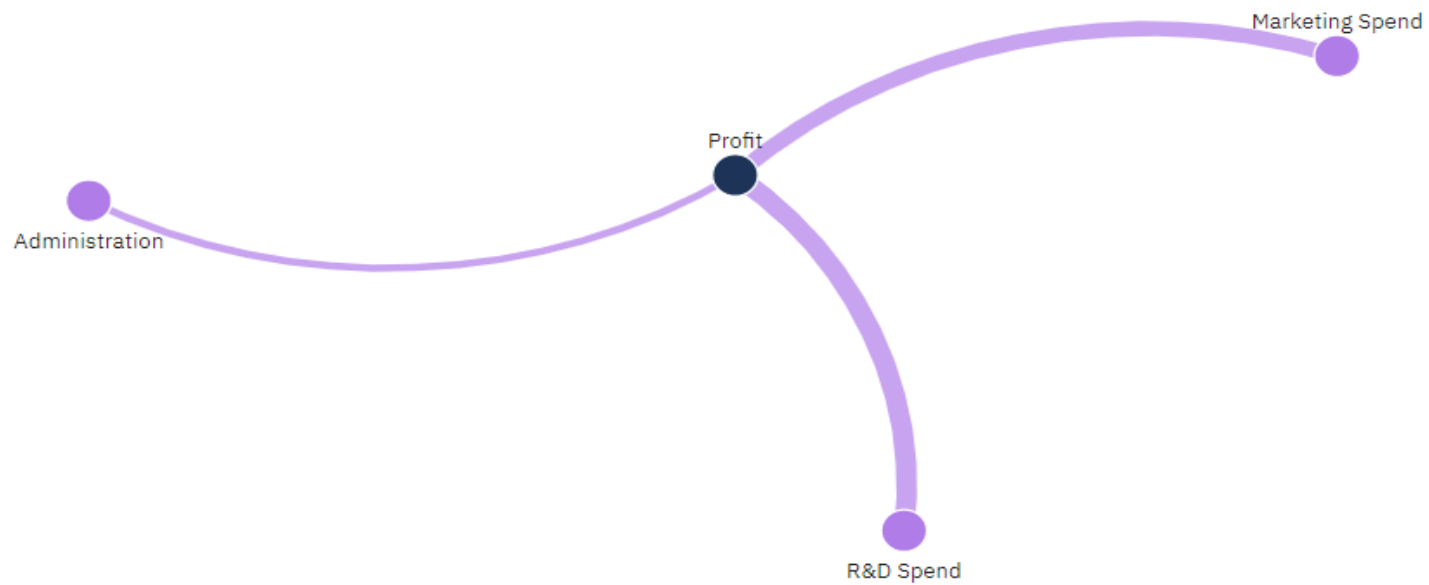
50\_Startups.csv

[Reset to original](#)

Q Profit

×

Edit diagram ▾



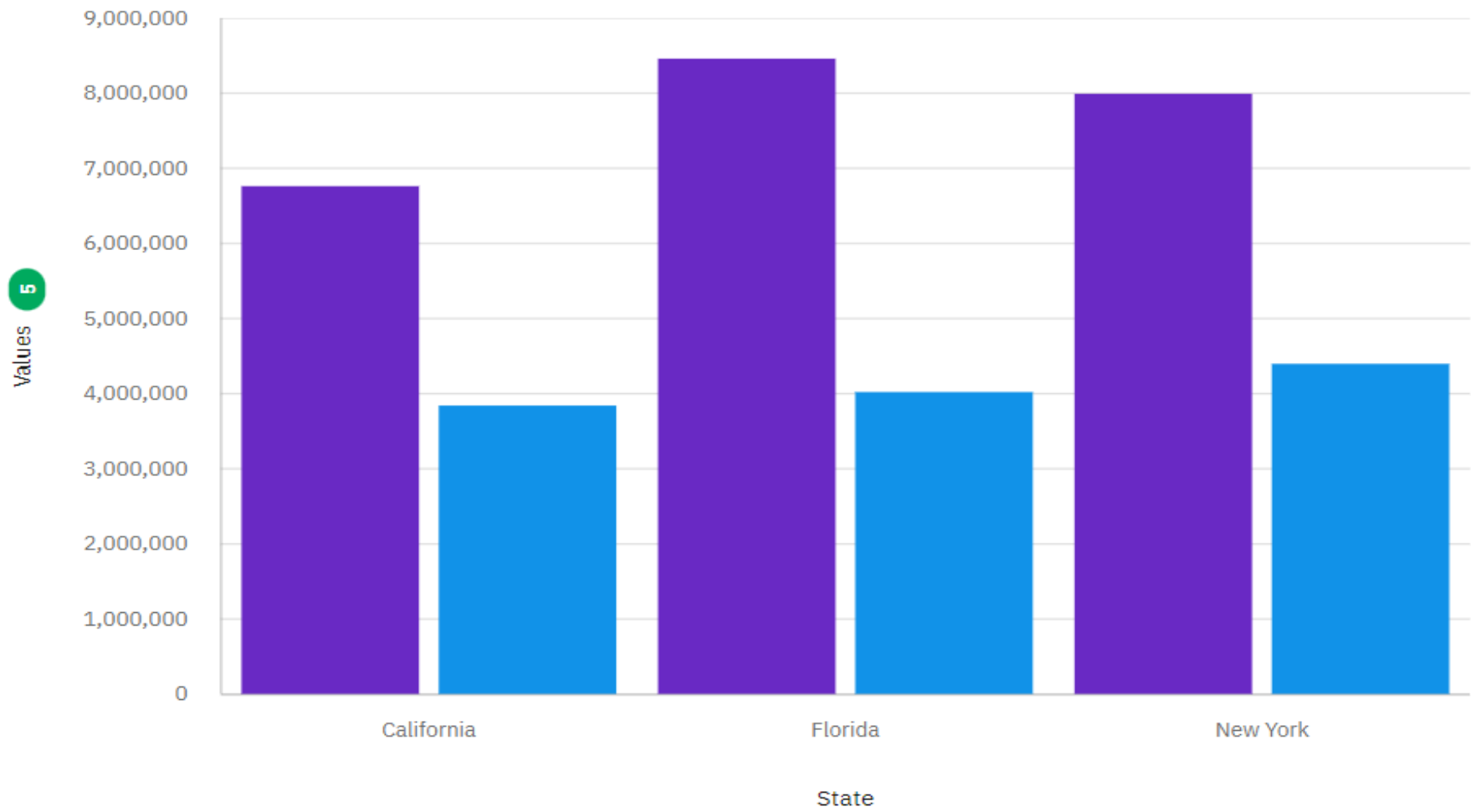
Relationship diagram ⓘ

10% —●—————●———— 100%

## Marketing Spend and Profit by State

Measures

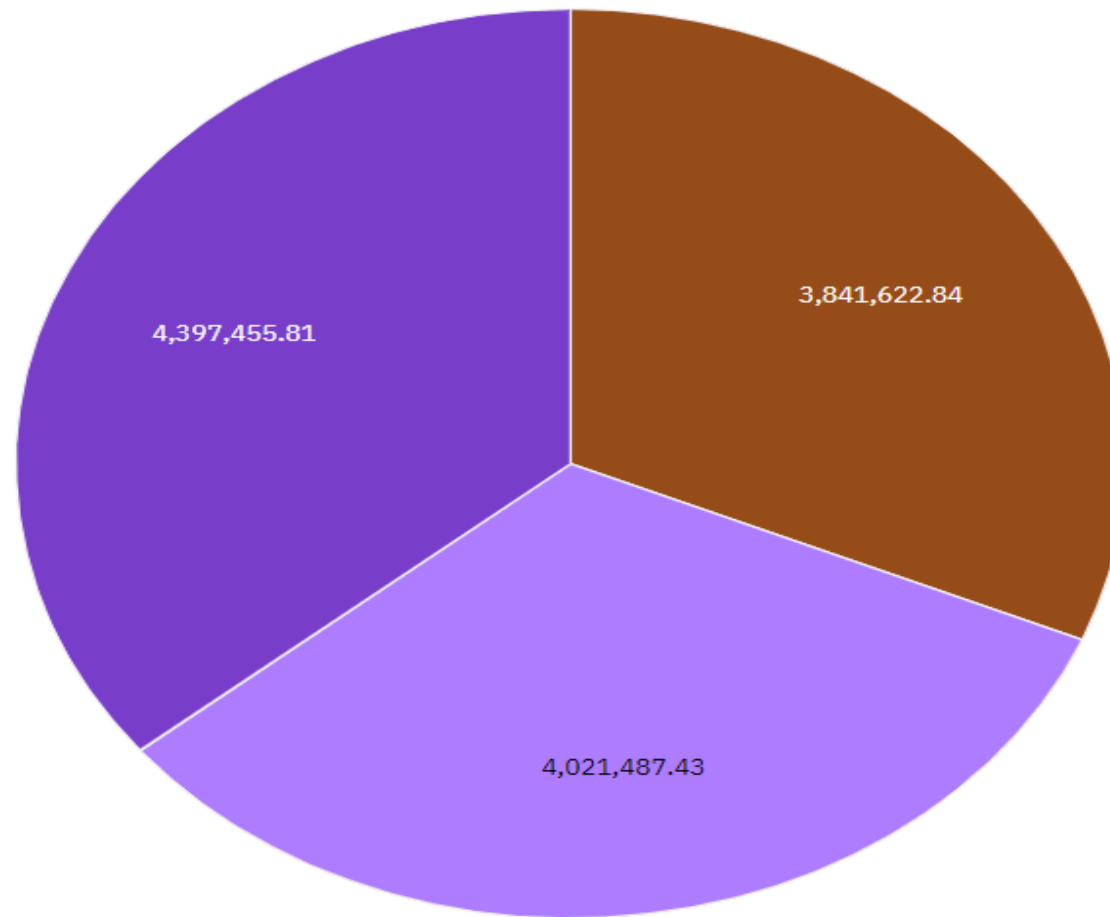
● Marketing Spend ● Profit



## Profit by State 4

State

California Florida New York

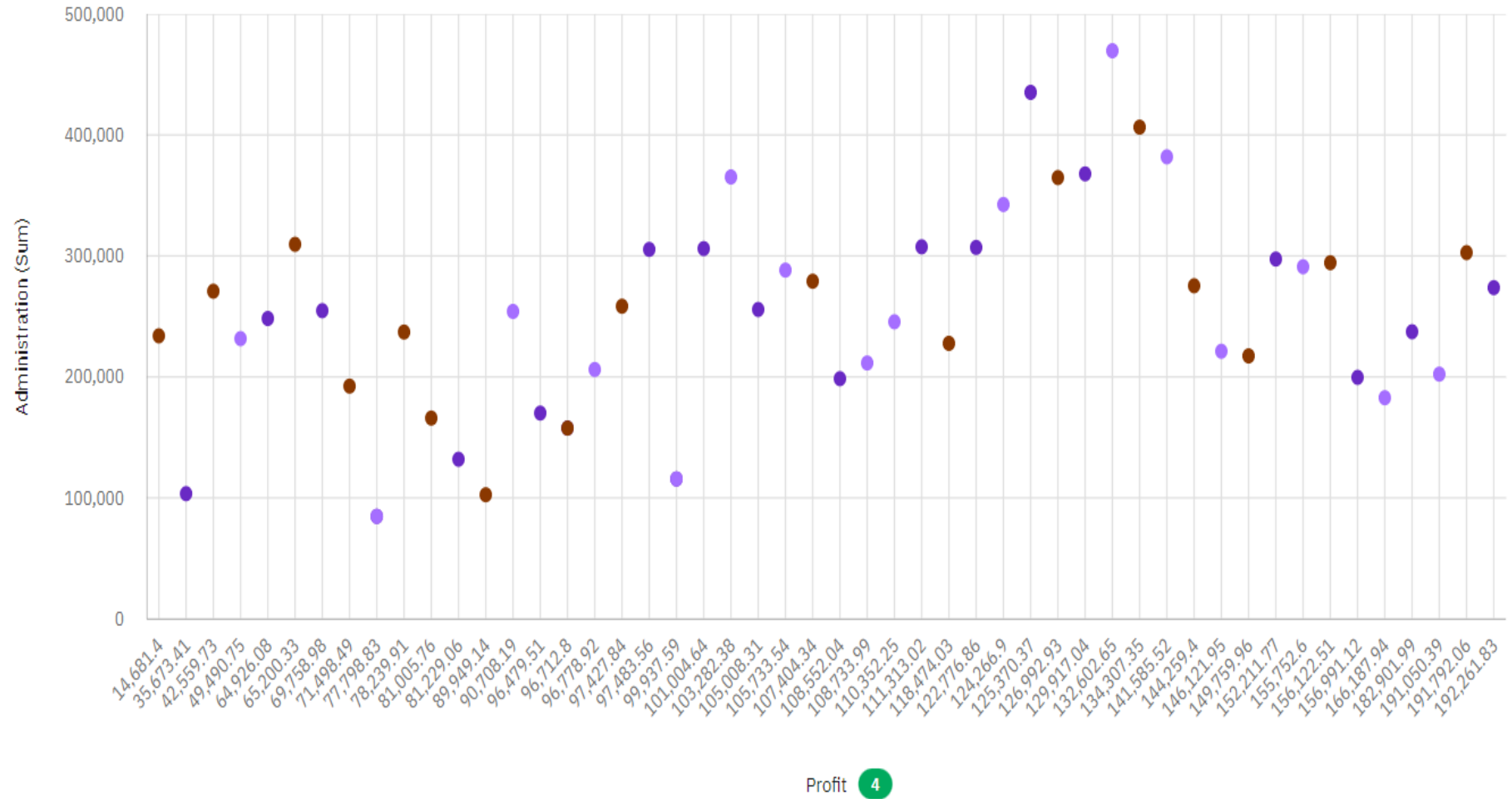


## Administration by Profit colored by State



State

California Florida New York

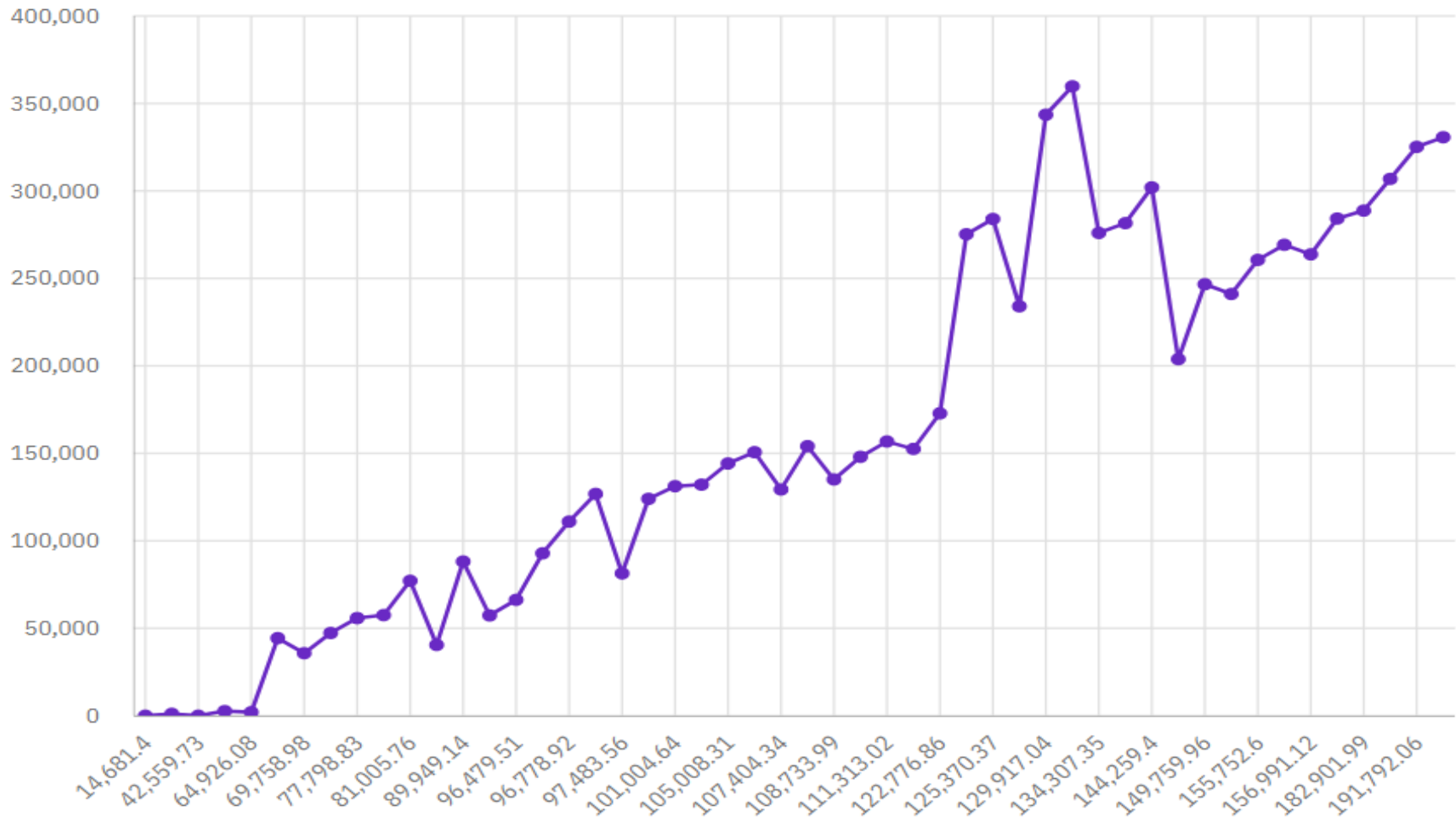


## R&D Spend by Profit



3

R&D Spend (Sum)



Profit

4

State, Marketing Spend, Profit, R&D Spend and Administration 8

State	R&D Spend	Administration	Marketing Spend	Profit
California	2,422,612.31	4,296,570.55	6,762,349.47	3,841,622.84
Florida	2,798,837.27	4,094,296.26	8,460,023.62	4,021,487.43
New York	2,874,159	4,758,218.39	7,992,514.7	4,397,455.81
Summary	8,095,608.58	13,149,085.2	23,214,887.79	12,260,566.08

## R&D Spend, Administration and Marketing Spend by State

Measures

R&D Spend Administration Marketing Spend

