

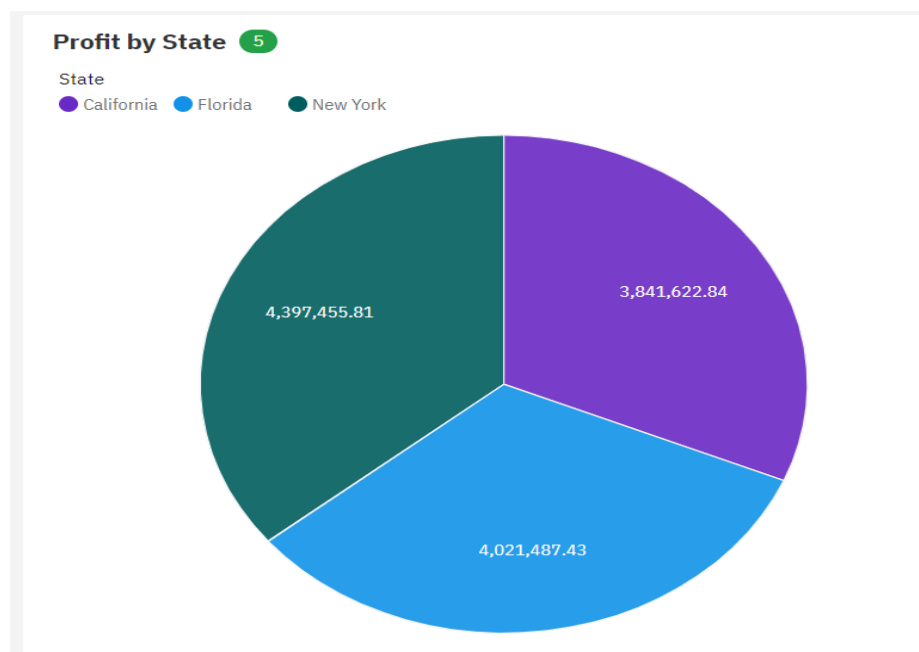
IBM Nalaiya Thiran
Assignment - 1
The Case of 50 Startups

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1. Profit by State

Inference:

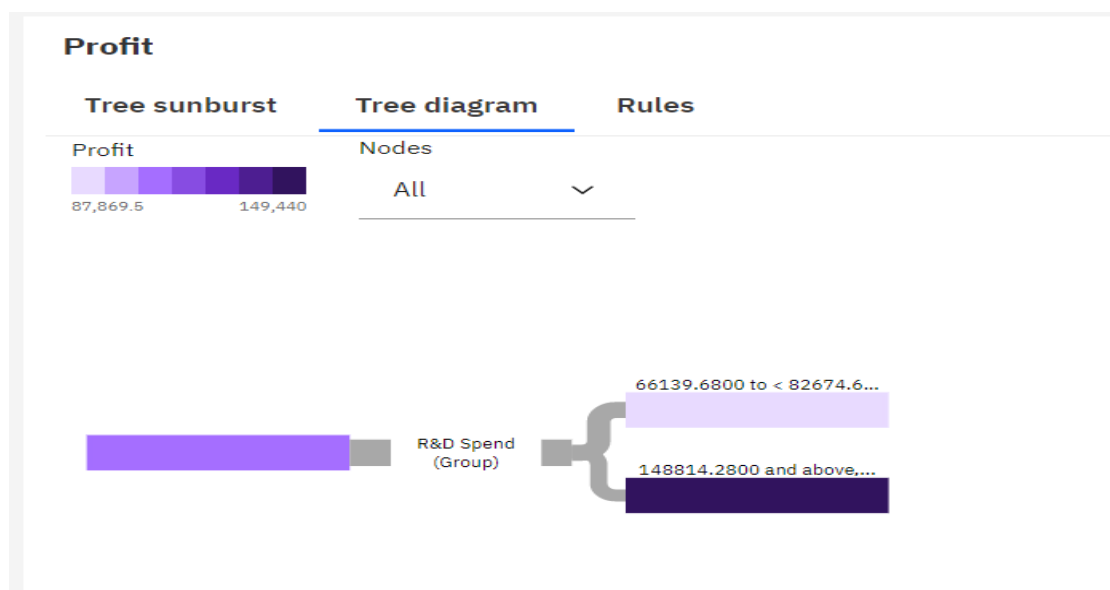
- This pie chart represents Average profit by state.
- Florida has more Average profit than other two states.
- While comparing these three states New York has the least profit.
- Over all states, the average of Profit is nearly 114 thousand.



2. Decision Tree on Profit

Inference:

- Decision tree representation on profit.
- R&D Spend predicts Profit with a strength of 61.2%.
- If R&D Spend is less than 86420, the predicted value is 87869.50.
- If R&D Spend is greater than or equal to 86420, the predicted value is 149440.00.



3. Profit, R&D Spend, Administration and Marketing Spend for State

Inference:

- This Cross table represents the profit, R & D Spend, administration and marketing spend for the state.
- The largest value of Profit is over 192 thousand, occurring in New York.
- The smallest value of Administration is over 51 thousand, occurring in California.

Profit, R&D Spend, Administration and Marketing Spend for State 14

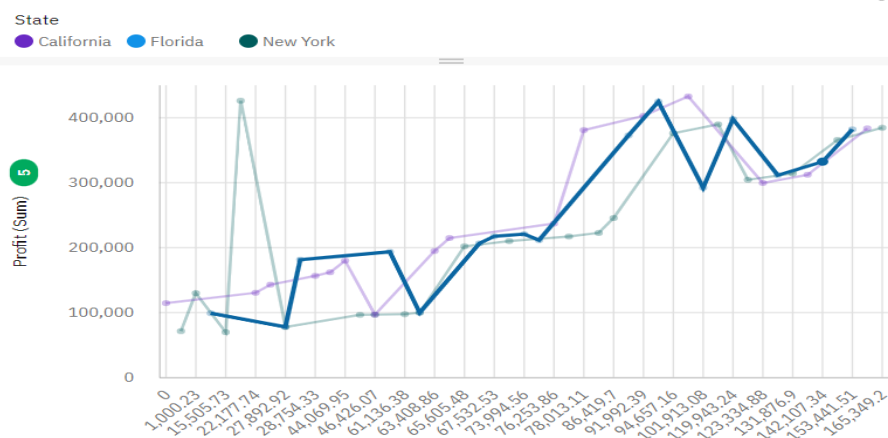
	Profit	R&D Spend	Administration	Marketing Spend
California	3,841,622.84	2,422,612.31	4,296,570.55	6,762,349.
Florida	4,021,487.43	2,798,837.27	4,094,296.26	8,460,023.
New York	4,397,455.81	2,874,159	4,758,218.39	7,992,514
Summary	12,260,566.08	8,095,608.58	13,149,085.2	23,214,887.

4. Profit by Marketing Spend (Group)

Inference:

- This Line graph represents profit by marketing spend.
- Profit is unusually high when Marketing Spend (Group) is 235892.0500 to < 283070.4600 and 283070.4600 to < 330248.8700.
- Across all values of Marketing Spend (Group), the sum of Profit is over 12 million.

Profit by R&D Spend colored by State



5.Profit and Profit for R&D Spend (Group) colored by Profit

Inference:

- This Line and column graph represents Profit and Profit for R&D Spend (Group) colored by Profit.
- Across all values of R&D Spend (Group), the sum of Profit is over 12 million.
- For Profit, the most significant values of R&D Spend (Group) are 66139.6800 to < 82674.6000, 82674.6000 to < 99209.5200, and 115744.4400 to < 132279.3600, whose respective Profit values add up to almost 5.4 million, or 43.8 % of the total.

