

Assignment -1

Estimate the crop yield using data analytics

Assignment Date	10 September 2022
Student Name	Salman Farish A J
Student Roll Number	311819104040
Maximum Marks	2 Marks

Question-1:

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

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.

Solution:

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Assignment-1

50_Startups.c

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Presentation

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Analytics

Details

Fields

Properties

Selected sources /

50_Startups.csv

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50_Startups.csv

- 📊 R&D Spend
- 📊 Administration
- 📊 Marketing Spend
- 📍 State
 - 📄 California
 - 📄 Florida
 - 📄 New York
- 📊 Profit

Marketing Spend compared to Profit by State 4

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Marketing Spend (Sum) Profit (Sum)

State	Marketing Spend (Sum)	Profit (Sum)
California	~6,800,000	~3,800,000
Florida	~8,200,000	~4,200,000
New York	~7,800,000	~4,500,000

State

Fields

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State

- Includes: Californ... Florida, New York 3
- Click or drag data here

Length* Required field

- Marketing Spend
 - Click or drag data here

y-start

- Click or drag data here

50_Startups.csv

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The screenshot displays the IBM Cognos Analytics web interface. On the left, a sidebar shows the data source '50_Startups.csv' and a selected measure 'Marketing Spend'. The main area features a pie chart titled 'Profit by State' with a legend for California (red), Florida (green), and New York (blue). The chart shows the following profit values: California (3,841,622.84), Florida (4,021,487.43), and New York (4,397,455.81). On the right, a 'Details' panel provides a summary: 'Across all states, the sum of Profit is over 12 million.' and 'Profit ranges from over 3.8 million, in California, to nearly 4.4 million, in New York.'

State	Profit
California	3,841,622.84
Florida	4,021,487.43
New York	4,397,455.81

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50_Startups.csv

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50_Startups.csv

📊 R&D Spend

📊 Administration

📊 Marketing Spend

State

California

Florida

New York

📊 Profit

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

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Measures

Marketing Spend

R&D Spend

Administration

Line

Profit (Sum)

10,000,000

8,000,000

6,000,000

4,000,000

2,000,000

0

5,000,000

4,000,000

3,000,000

2,000,000

1,000,000

0

California

Florida

New York

Values

Profit (Sum)

State	Marketing Spend	R&D Spend	Administration	Profit (Sum)
California	6,800,000	2,500,000	4,500,000	3,800,000
Florida	8,500,000	2,800,000	4,200,000	4,000,000
New York	8,000,000	2,800,000	4,800,000	4,500,000

Fields

Column length*

Required field

Marketing Spend

R&D Spend

Administration

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Column color

Measures group (3)

Click or drag data here

50_Startups.csv

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The screenshot displays the IBM Cognos Analytics interface. On the left, a sidebar shows a 'Cards' section with a 'Profit' card displaying '12.3M' and a 'Data relationships' section with a diagram icon. The main area is titled 'Explore data relationships' and shows a relationship diagram for '50_Startups.csv'. The diagram features four nodes: 'Profit' (central), 'Administration', 'R&D Spend', and 'Marketing Spend', connected by curved lines. A search bar at the top of the diagram area contains 'Profit'. Below the diagram is a 'Relationship diagram' legend and a zoom slider from 10% to 100%. On the right, a panel shows 'Profit' and 'Administration and Profit for State regions' with a world map.

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IBM Cognos Analytics with Watson

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Cards

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Profit

12.3M

Profit

Data relationships

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Profit 4

12.3M

Profit

Details

The total number of results for Profit is 108.

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