An Overview of Job function.

Tableau Developer

A Presentation on
Roles within Data Analytics

Introduction to Data Analytics
(ALY6000)

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AGENDA

01

ROLES OF DATA ANALYST.

- Responsibilities and key roles.

02

WHAT IS DATA VISUALIZATION ?

- Data Generation ratio.
- Why does data visualization matter?

03

WHAT IS TABLEAU ?

- Products of Tableau.
- Advantages of Tableau.
- Required skills.

04

MARKET FORECAST ON DEMAND FOR JOB

- Mentioned in LinkedIn and indeed.

05

AVERAGE SALARY FOR ROLE

- Compared with other profession

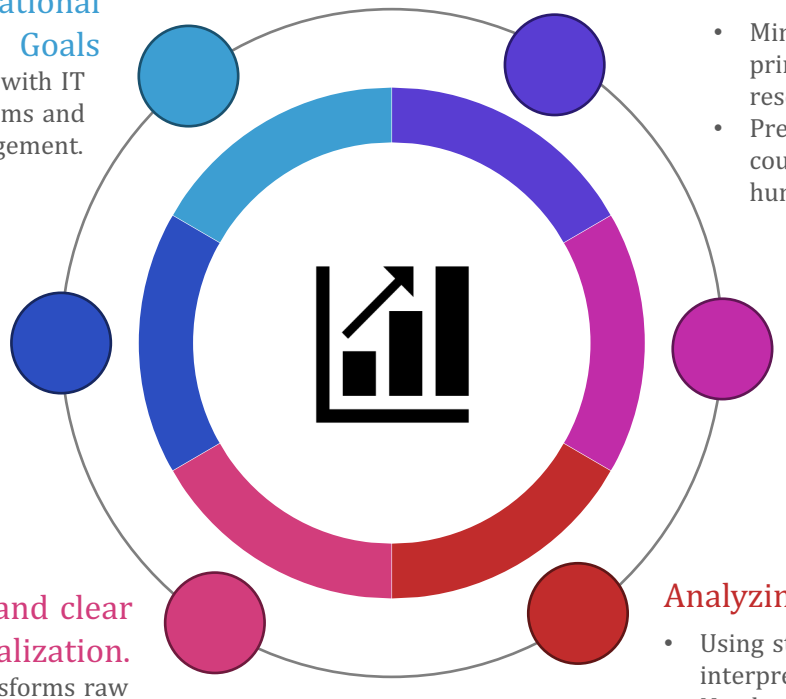
06

CONCLUSION

- Bibliography

- The world has generated 50 times the amount of data in past couple of years. That is dramatics rise in data generation in all over the world.
- Certainly, most of the data generated in this globe is messy, complicated, hard to understand at first eye-sight, which are unclearly gathered from dozens of resources.
- So, data needs to be cleaned, well organized – structured to be more precise where, viewers can effortlessly grasp any pattern or insights of the data.

ROLES OF DATA ANALYST



Determine Organizational Goals

- Working with IT Teams and management.

Mining Data

- Mining data from primary and secondary resources.
- Prepares data that could be easily read by humans and machines.

Maintain Database and Data Systems

- Data Analyst needs to have technical expertise in maintainability of database.
- Which consist storge, availability, database model etc.

Data Cleaning

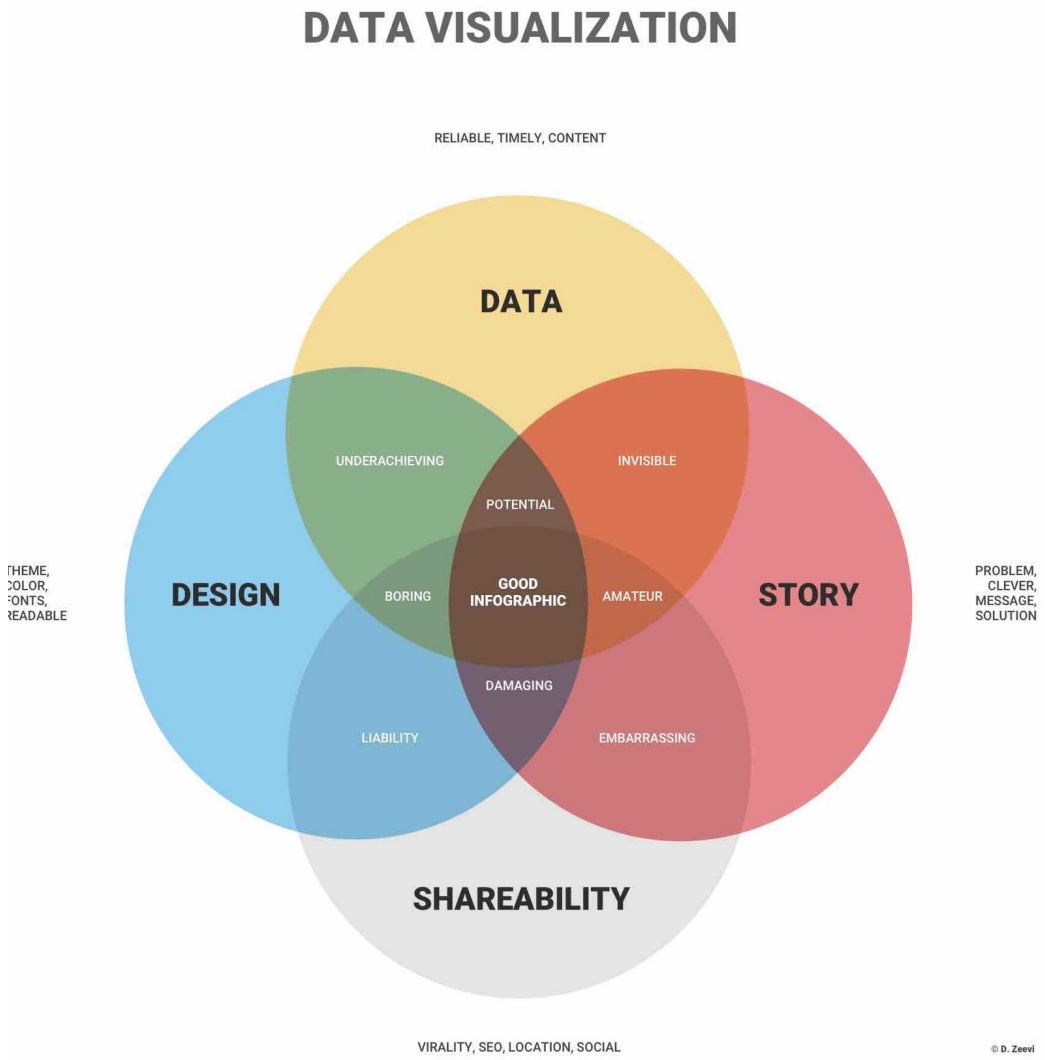
- This process contains analyzing, identifying and correcting messy data.

Creating Reports and clear Visualization.

- Report transforms raw data into meaningful information.
- Using Business Intelligence tools analyst creates different visuals of data.
- Ex:- Tableau.

Analyzing Data

- Using statistical tool to interpret data set.
- Needs to pay particular attention on specified goals by clients.
- Tools includes R, Python, SQL etc.

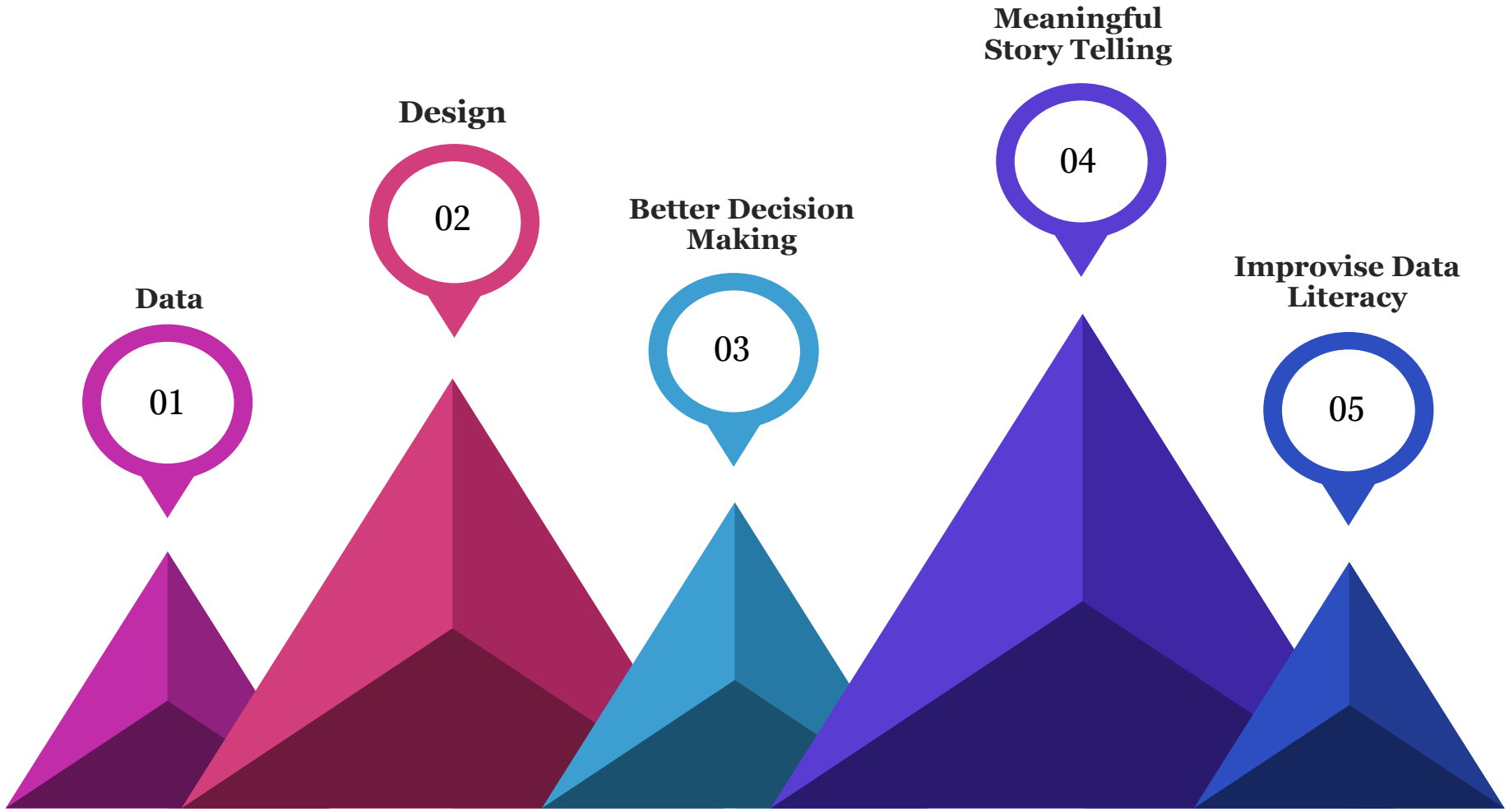


WHAT IS DATA VISUALIZATION ?

- Data visualization is turns any datasets into visuals that are easier to understand.
- It is all about to process data within its prerequisites and then perform graphical task in order to convert raw data into powerful visuals.
- It does contain several segments.

Source: *https://infogram.com/page/data-visualization*

WHY DOES DATA VISUALIZATION MATTER?



WHAT IS TABLEAU ?

- Tableau is a very powerful data visualization tool that can be used by Data Analyst, Data Scientist, Data Engineer and by Statisticians also.
- Tableau is a very famous business intelligence tool which takes data from various resources and produce the required data visualization output in very short time.
- Tableau allows users to clean, prepare and make meaningful data visuals, which can then effortlessly explain complex dataset in simplest way.

PRODUCTS OFFERED BY TABLEAU

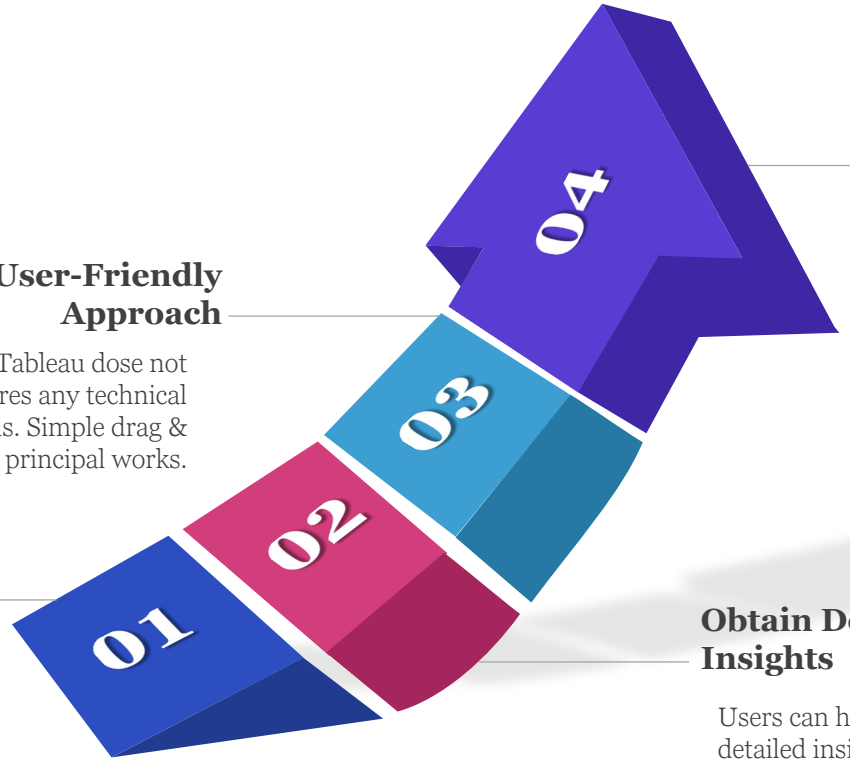
Tableau Desktop
The Tableau Desktop is a desktop application which is offered by Tableau official.

Tableau Public
Tableau Public is free software provided by the tableau. .

Tableau Online
In this edition users can visualize and share them with others online using web browser.

Tableau Server
Tableau server is organizational edition, where organization needs to install on server for n number users.

ADVANTAGES OF TABLEAU



Creates Attractive Visualization

Users can create wonderful designs in Tableau. With the help of this BI tool data becomes useful for decision making.

User-Friendly Approach

Tableau dose not requires any technical skills. Simple drag & drop principal works.

Support numerous Data Sources

User can directly work with data sets of Excel, JSON, CSV, SQL by importing them into Tableau.

Obtain Detailed Insights

Users can highlight detailed insights of data. Tableau software contains numbers of features which are helpful to prepare visuals.

GOOD TO HAVE SKILLS

Database understanding and query writing

Good database understanding, data modeling, and database query understanding.

Business Intelligence

Having strong command to create powerful BI graphics and visuals with business requirement documents and create interactive dashboards.

Statistical Concepts

Understanding of Trend line, forecast, clustering, correlation, scatter plots, histogram, box plot, regression lines, charts etc.

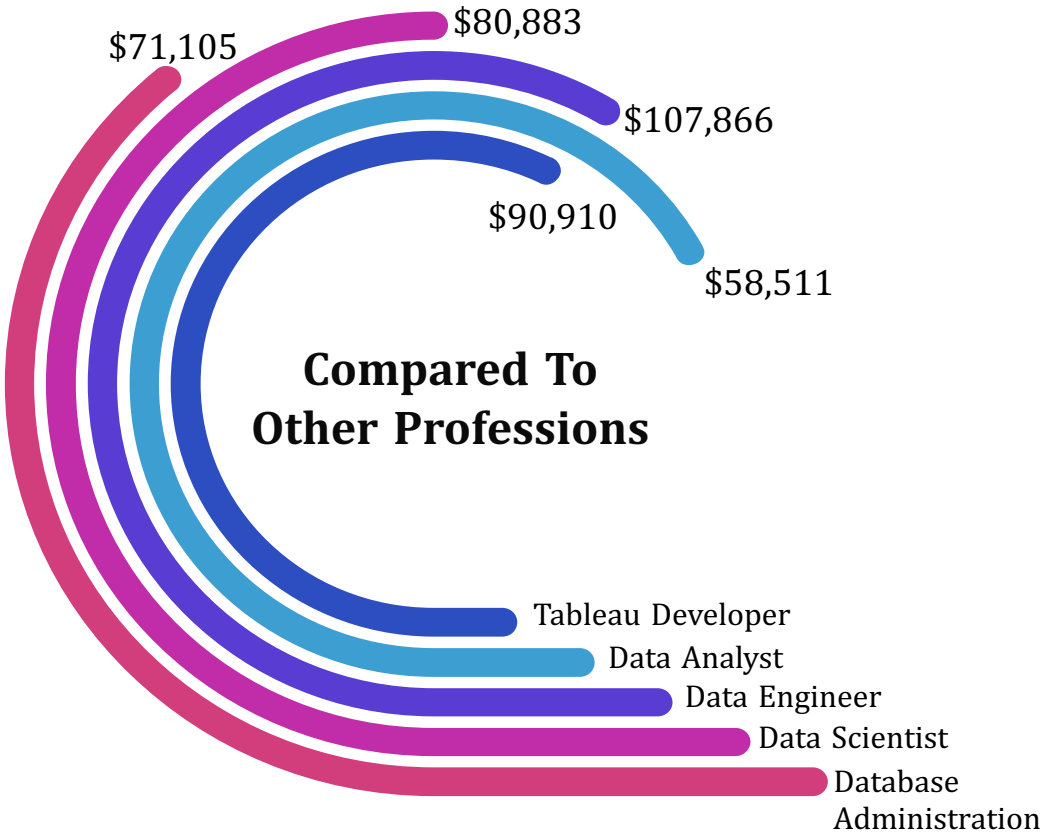
Understanding of Environment

Knowledge of architecture of data-driven projects, Tableau Desktop, Dashboards.

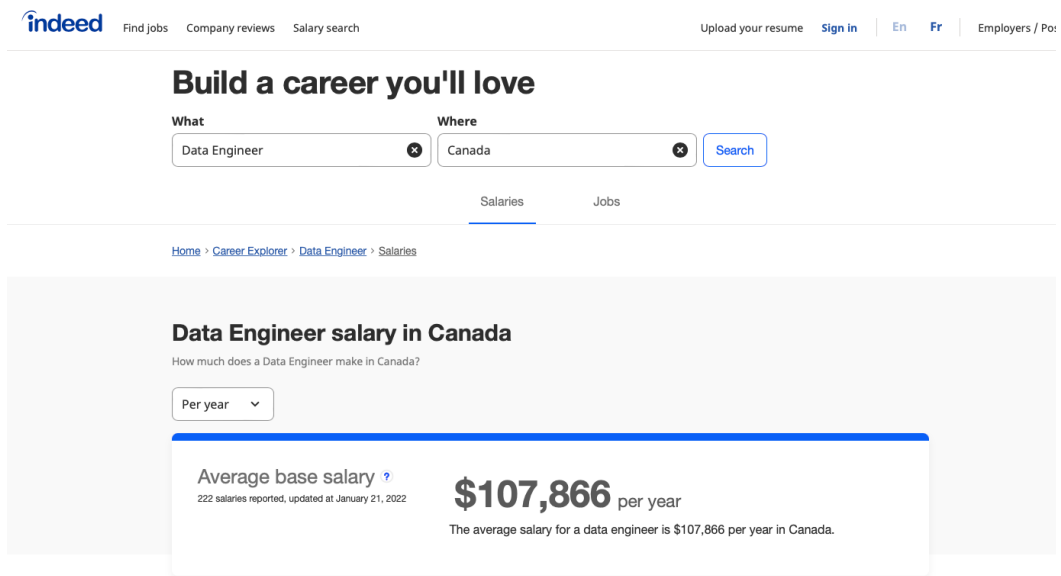
Dashboards

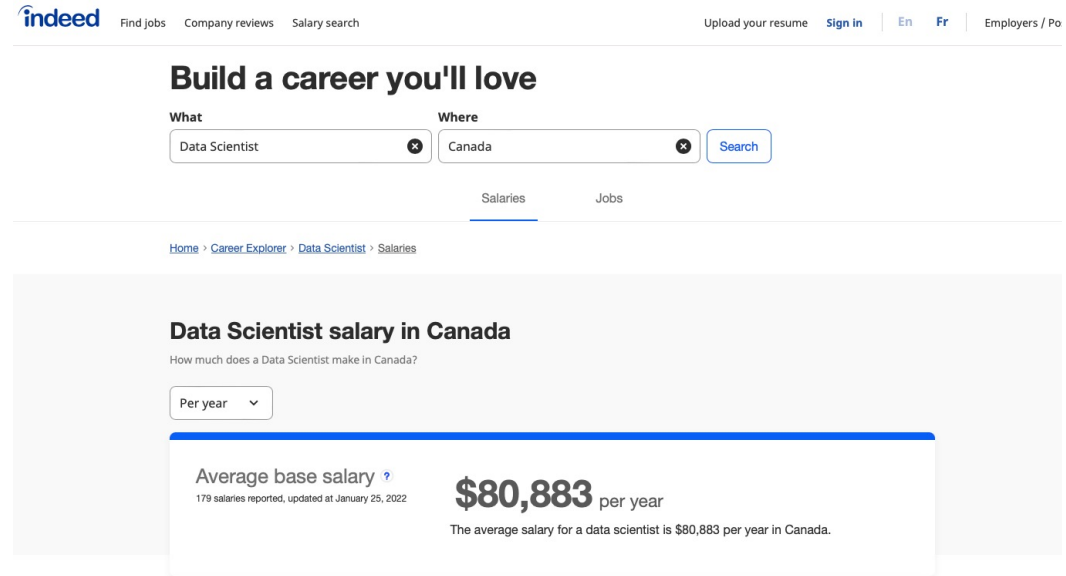
Dashboard is the data management tool of BI. Data is displayed on this sheet using advance data visualizing techniques which allows users to have idea about data.

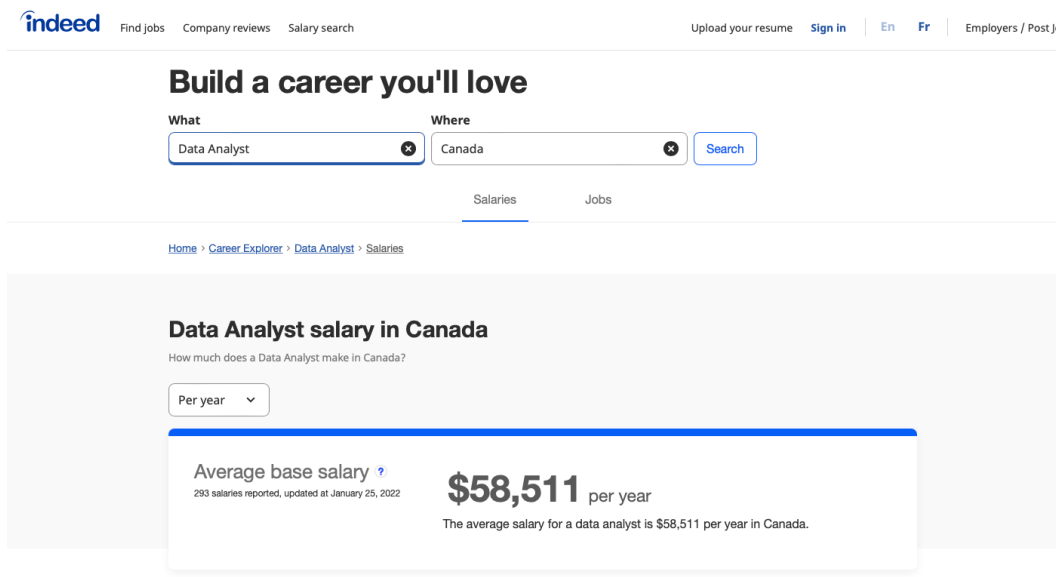
AVERAGE SALARY FOR ROLE

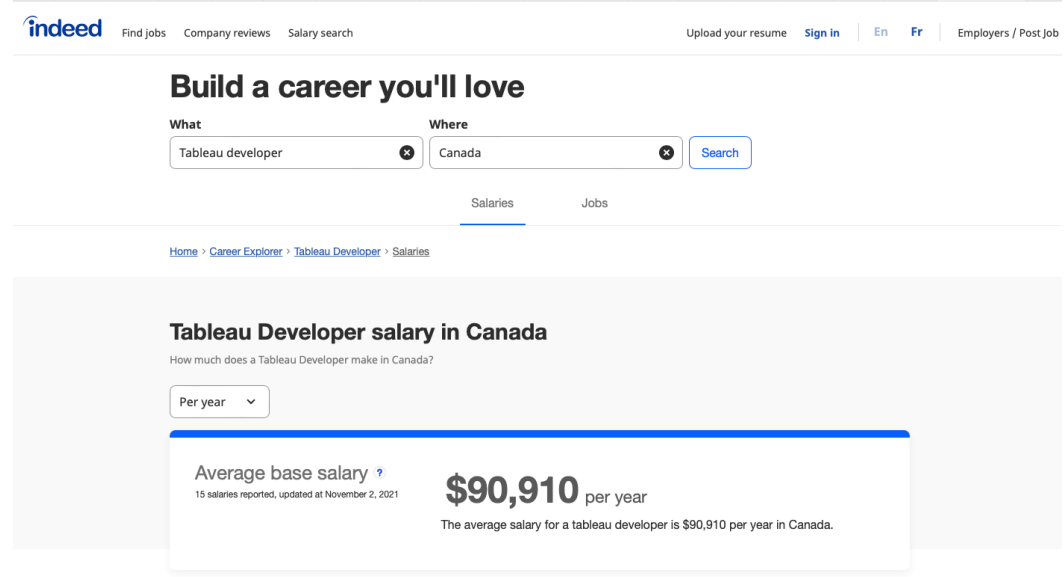


Average base salary : per/year*









Source : *https://ca.indeed.com/career/salaries*

CONCLUSION

Thus, we can say that data is a powerful resource for change, and it is growing every hour of everyday. Therefore, maintainability of these data source is becoming essential part of digital economy.

However, communities and several organizations have not traditionally been fulfilled with technologies and data resources to maintain these tremendous amount of dataset. As a result, it creates certain job opportunities for data professionals who has quality amount of knowledge towards data analysis.

The designation of Tableau Developer is one of its kind. Over the past few years, it was hard to represent statistical data in a meaningful visual. But now its possible with Tableau. Therefore, carrier opportunities of this employment is blooming.

BIBLIOGRAPHY

1. What Is Tableau And Its Importance In Data Visualization? - GeeksforGeeks. (2020, June 3). GeeksforGeeks. https://www.geeksforgeeks.org/what-is-tableau-and-its-importance-in-data-visualization/.

2. What Is Data Visualization?. (n.d.). Infogram. https://infogram.com/page/data-visualization.

3. Tableau Developer Salary | How Much A Tableau Developer Earns? | Edureka. (2019, October 24). YouTube. https://www.youtube.com/watch?v=FoFu75B4iu8.

4. What Does a Data Analyst Do: Responsibilities, Skills, And Salary. (2019, April 17). Northeastern University Graduate Programs. https://www.northeastern.edu/graduate/blog/what-does-a-data-analyst-do/.

5. Keshari, K. (2018, December 6). *Data Analyst Roles And Responsibilities | Data Analyst Skills | Edureka.* Edureka. https://www.edureka.co/blog/data-analyst-roles-and-responsibilities/.

6. Salaries | Indeed.com. (n.d.). Salaries | Indeed.com. https://ca.indeed.com/career/salaries.

7. 10,000+ Tableau Developer Jobs In United States (563 New). (2022, February 1). 10,000+ Tableau Developer jobs in United States (563 new). https://www.linkedin.com/jobs/search/?keywords=tableau%20developer.

8. Data Trends That Will Impact You In 2022. (2022, February 3). Tableau. https://www.tableau.com/about/blog/2022/2/data-trends-will-impact-you-2022.