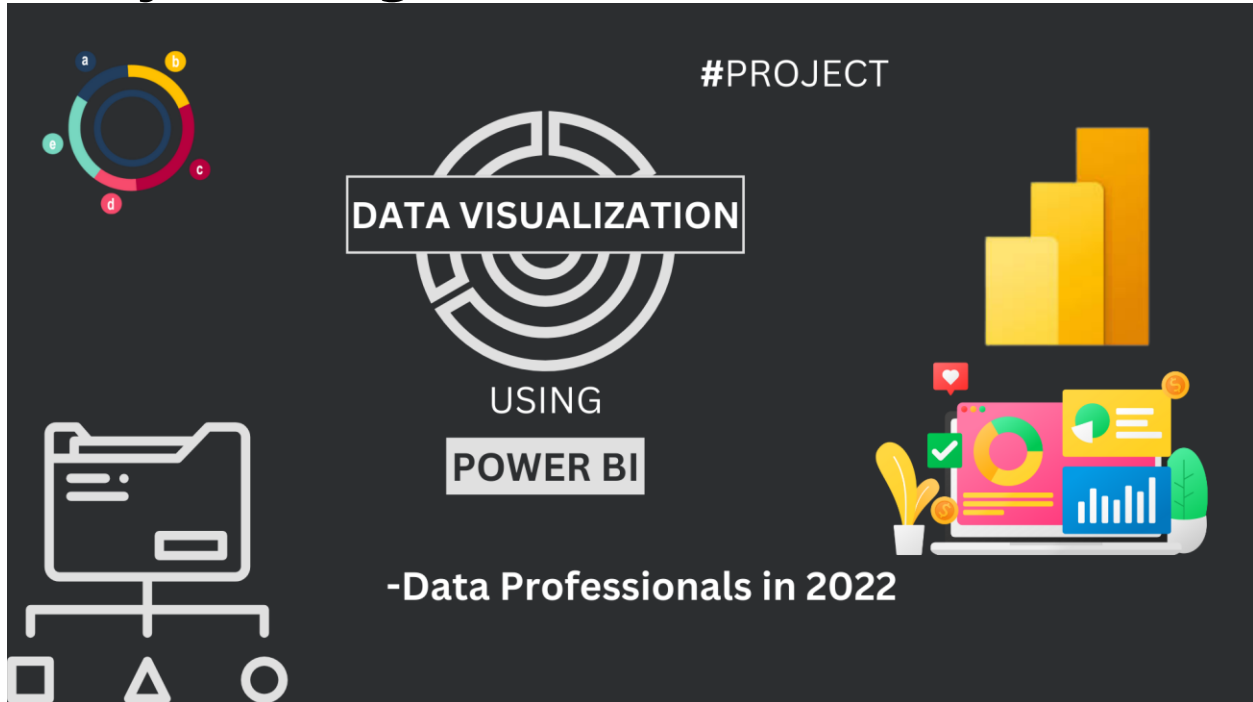# Data Professionals in 2022: Insights and Analysis using Power BI

Description:

This project aimed to gather and analyze information about Data Professionals in 2022 using Power BI. The primary objective was to provide valuable insights into job details, salary, programming languages, work-life balance, and overall satisfaction of survey participants. The project involved data cleaning, processing, and visualization techniques in Power BI to uncover key trends and patterns.

Skills: Data Visualization, Power Bi

🎯**Objective:**

💥Surveyor wants to collect information about Data Professionals in 2022 so that people can understand Data Professionals' jobs in 2022.

🎯**Data gathering & cleaning:**

💥 Imported the CSV file into Power Bi and performed activities like removing duplicates, fixing errors, and transforming the data into an easily analyzed

format using the transform data option in Power Bi. The first step in any data analysis project is to clean the data. Because the raw data we receive consists of errors that might affect the insights drawn. Data Professional Job data consists of errors in columns like Q1 - Which Title Best Fits Your Current Role?, Q3 - Current Yearly Salary (in USD), Q5 - Favorite Programming Language, and Q4 - What Industry do you work in?. And I removed Some columns' Which are empty. This data is cleaned thoroughly.

🎯**Data Processing**:

💥 Then I created a column called Average Salary from the existing Q3 - Current Yearly Salary (in USD) column. and removed some unwanted data. This project was all about learning Power Bi, so I did everything in Power Bi. If it comes to Data cleaning and Data Processing Excel and SQL are the best.

🎯**Questions asked:**

👉 Compare the Data Professional's Job details and Survey Breakdown using a Dashboard and find the job with the highest salary and Difficulty to Break into Data.

👉 What is the favorite programming language among survey takers, categorized by country?

👉 What is the favorite programming language among survey takers, and how many voters are there for each language?

👉 What is the average salary for each job title?

👉 What is the count of survey takers?

👉 What is the average age of the survey takers??

👉 What is the difficulty level of breaking into the field of data?

👉 Are they satisfied with their work-life balance?

👉 Are they content with their salary?

🎯**Key insights:**

👉 Country wise favorite programming languages.

👉 Average salary by Job title.

👉 Average Age of Survey Takers.

👉 Difficulty to Break into Data.

👉 Happy With Work/Life Balance.

👉 Happiness With Salary.

🎯Conclusion:

👉Finally based on the insights, to find about Data Professionals' job details in 2022, we can suggest Data enthusiasts consider the following:

🏷 Data Scientist Jobs have the highest salary package among other data jobs.

🏷 Python is a favorite programming language for most voters.

🏷 Data Analyst Jobs have a medium-level difficult to break.

🏷 55% of the people does not happy with their salary.

🏷 60% of the people are happy with their jobs.