Data Science Questions

Data Analysis

Question
Ask yourself what are the data science questions you define that can be answered with data

Data
Find, get, and clean your data

Analysis
Apply data analysis tools to your cleaned-up data to answer the data science questions you asked in the first step

Present
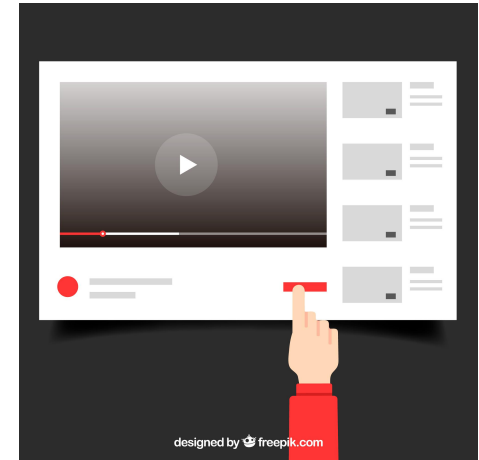Present and communicate your analysis results to your audience

- **Descriptive**: describing large volumes data.

- **Exploratory**: finding unknown relationships with many variables measured.

- **Inferential**: using a relatively small sample of data to say something about a bigger population.

- **Predictive**: using data from some objects to predict values of other objects.

- **Problem:** Credit card fraud detection
- **Data science question:** What are the factors that signal a transaction as a fraud?
- **Type of analysis:** Predictive analysis

- **Problem:** Analysis of Youtube comments
- **Data science question:** Are most Youtube comments positive or negative?
- **Type of analysis:** Descriptive analysis

- **Problem:** Sesame Street and kids brain development
- **Data science question:** Does watching Sesame Street make kids smarter?
- **Type of analysis:** Inferential analysis