EXPLORATORY DATA ANALYSIS

Exploratory data analysis (EDA) is used by data scientists to analyse and investigate data sets and summarize their main characteristics, often employing data visualization methods. It helps determine how best to manipulate data sources to get the answers you need, making it easier for data scientists to discover patterns, spot anomalies, test a hypothesis, or check assumptions.

Well, the above description of EDA is obviously copied from the internet. Haha! But in simple words let me explain EDA with an example.

Okay, your parents decide to buy you a new laptop after hearing to a lot of tantrums that you have put and days of pleading. With an air of enthusiasm sprawling, thinking what laptop to buy, you open your device start to google stuff. The first thing you do is fix your budget. You shortlist your laptop selection from a price point at which your parents are comfortable with. Then you search for the brand that you are gonna select which falls within the budget. You then check out the laptop's RAM, display size, storage size, type of storage, the Operating System in which the system runs, colour, type of finish, camera quality, Connectivity options etc etc….With the stuff that you have now googled and the knowledge you gained from knowing about the specifications of the product, you conclude your mind on buying the laptop which comes under all of the parameters that you have researched.

This is what is called as Exploratory Data Analysis. The background research that you do perform in order to understand a concept and compare its properties or with one another for a better clarity is known as EDA. For an easy and convenient approach, the data is visualised graphically.