Research Work

Research is work undertaken to gain knowledge. It entails the collection of data, documentation of critical information, and analysis, and interpretation of that data. In very rudimentary terms, it is the process of organised learning. Research is conducted to evaluate a hypothesis, and to assemble a body of substantive knowledge and findings for sharing them inappropriate manners, and to generate questions for further inquiries.

Research involves inductive and deductive methods. The purpose of conducting research can be broken down into three basic categories:

* *Exploratory*: Done to find correlations; the first step for new projects
* *Descriptive*: Focusing on expanding current understanding of a topic
* *Explanatory*: Understanding the impact of specific changes in given procedures

There exist two broad methods to conduct research: Qualitative and Quantitative. Qualitative research generally deals with non-numerical data. Fields like Natural Language Processing is a good example. Quantitative research deals with numerical data. Surveys and reports are generally used to gather data, and correlation is studied.

Conducting a research study and writing a paper involves the following:

* *Identifying the subject and clarifying the field being studied*
* *Finding existing literature on related topics*
* *Defining terminology and concepts used*
* *Constructing a roadmap of the entire study*
* *Collecting data*
* *Visualising and Analysing the data*
* *Giving citations and sources used*