

# Chapter 3

## A Study on Models and Methods of Information Retrieval System

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### ABSTRACT

*Information Retrieval (IR) is the action of getting the information applicable to a data need from a pool of information resources. Searching can be depends on text indexing. Whenever a client enters an inquiry into the system, an automated information retrieval process becomes starts. Inquiries are formal statements which is required for getting an input (Rijsbergen, 1997). It is not necessary that the given query provides the relevance information. That query matches the result of required information from the database. It doesn't mean it gives the precise and unique result likewise in SQL queries (Rocchio, 2010). Its results are based on the ranking of information retrieved from server. This ranking based technique is the fundamental contrast from database query. It depends on user application the required object can be an image, audio or video. Although these objects are not saved in the IR system, but they can be in the form of metadata. An IR system computes a numeric value of query and then matches it with the ranking of similar objects.*

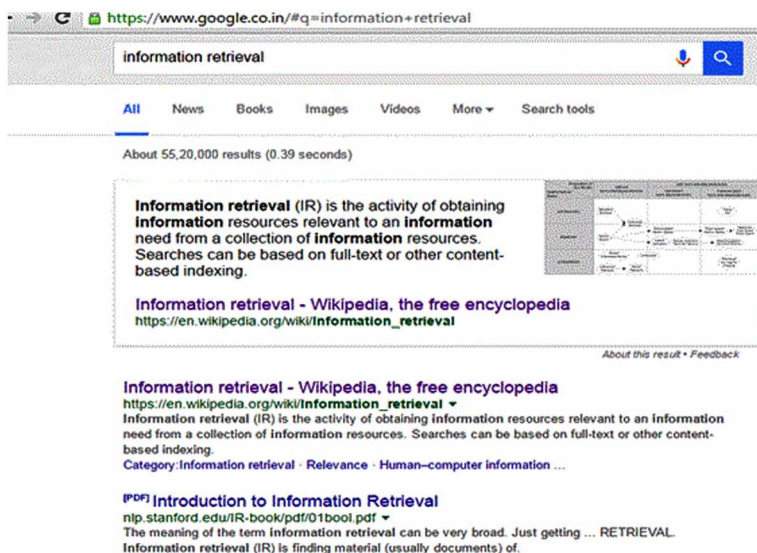
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## INTRODUCTION

Information retrieval (IR) is the action of getting the information applicable to a data need from a pool of information resources. Searching only depend on text indexing. Whenever a client enters an inquiry into the system, an automated information retrieval process becomes activated. Inquiries are formal statements which is required for getting an input (Rijsbergen, 1997). It is not necessary that the given query provides the relevant information. That query matches the result of required information from the database. It doesn't mean it gives the precise and unique result likewise in SQL queries (Rocchio, 2010). Its results are based on the ranking of information retrieved from server. This ranking based technique is the fundamental contrast from database query. It depends on user application, the required object can be an image, audio or video. Although these objects are not saved in the IR system, but they can be in the form of metadata. An IR system computes a numeric value of query and then matches it with the ranking of similar objects. However user appears the result having top rank object/ article/ text as shown in Figure 1.

The above figure reflects all results of *information retrieval* in the form of Wikipedia, pdf, ppt etc. This query provides approximate fifty lakh results. But the user can change the query according to requirements. For example user can ask for *information retrieval pdf* as shown in Figure 2. As it is reduce the number of results. Now it shows eighteen lakh results.

*Figure 1. Query on Web Search Engine*



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