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# The Impact of Search Engine Optimization (SEO) in Organizations' Marketing

by

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#### **Abstract**

Today's world revolves around information that is the driving force behind any economic value chain. The thirst for information has led to the evolution of online "Search Engines" over last few years and are the most widely used instruments currently. Gradually marketers also started using this platform for marketing their products. This study focuses on the impact of search engine optimization as a marketing in organizations and its influence on various marketing variables like market share, brand equity and others. Literature review highlights many marketing variables getting affected by search engine optimization. Variables like market share, brand loyalty, brand recognition, product price, product information, brand image, brand awareness, consumer online behavior, and user reviews are few of them. The authors have found that most of the researches have highlighted these variables either in isolation or may be in combination of few. Few studies have considered variables only from marketer's point of view and others from buyer's point of view. In this study, the authors have attempted to comprehend and understand empirically, the impact of search engine optimization on various marketing variables identified (after the study) as market share and brand equity as the most prominent ones and product awareness, purchase persuasion and consumer insights the other important ones.

To analyze the said phenomenon, the initial step was the examination of the significant writing to develop a comprehension about different parameters of search engine in Organizational marketing.

Keywords: Search engine optimization, digital marketing, online marketing, digital campaigns, marketing performance, website traffic

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Introduction

Internet connectivity is ruling the globe in current scenario, and it is virtually unfeasible to find

anything on the web without utilizing a search engine. But the question is what this search engine

is? A search engine is complex software which may be compared to be a finder visiting to the

various websites and their pages which help the searcher to find significant data (Levene, 2010).

Search engine optimization (SEO) can be defined as a mechanism which allows the searcher to get

most appropriate results of his online search. SEO also helps marketers by displaying their

respective ads to the right people in the right place and right time. Marketers can advance the

rankings of their advertisement on the search-results pages by improving their quality score in

order make them more significant and therefore more search-engine compatible (Sen, 2005).

Search engines can be classified into three sorts:

• Crawler-based search engines: Crawler or Spider programs create databases by methods for

web robots. These robots are programs that dwell on a host system and recover data from

destinations on the web utilizing standard conventions. Basically, they naturally venture to

every part of the Web taking after connections from records and gathering data as indicated by

the HTML structure of the record (Thelwall, 2015).

• Human-powered directories: Human-powered directories additionally alluded as "open index

system" relies upon human-based exercises for postings. Site proprietor presents a short

portrayal of the site to the registry alongside category it is to be recorded. Submitted site is

then physically looked into and included the suitable class or rejected for posting. Keywords

entered in the search box will be coordinated with the portrayal of the locales. A decent site

with great substance will probably be assessed for nothing contrasted with a site with poor

substance (Burghardt, Heckner, & Wolff, 2012).

• Hybrid search tools: Hybrid search engines utilize both crawler-based and manual ordering

for postings the locales in list results. A large portion of the crawler-based web indexes like

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Google fundamentally utilizes crawlers as an essential component and manual screening as an auxiliary instrument. At the point when a site is being distinguished for spam exercises, manual survey is required before incorporating it again in the query items (Ahlers, 2012).

Attributable to the massive amount of data on the Web, ideal from the beginning of the Web, web crawlers have turned into an irreplaceable instrument for web clients. The underlying foundations of search engine innovation are in data recovery systems, which can be followed back to the work at IBM amid the late 1950s. Data recovery has been a dynamic field inside data science from then and has been given a major lift since the 1990s with the new prerequisites that the Internet had brought (Oppenheim, Morris, McKnight, & Lowley, 2000). One of the issues related with the assessment of web search tools is the reality that they are always showing signs of change, and building up their search instruments and user interface. Also, consistently observes the innovation of new web search tools. Joining these truths with the always showing signs of change substance of the web, it is clear that no particular assessment of an Internet search engines is probably going to stay legitimate for any period of time. Subsequently, most researchers stress that the results of the search engines are just demonstrative of the execution of those web crawlers around at that time only (Kammerer & Gerjets, 2012).

#### **Process of Surfing on Search Engine**

For the search engine methodology, a client looking for data on the Internet will ordinarily repeat through the accompanying steps:

- 1. *Question detailing*: The client presents an inquiry to the search engine indicating his or her objective; ordinarily a question comprises at least one info keywords.
- 2. *Determination*: The client chooses one of the site pages from the positioned comes about rundown returned by the web index, taps on the link to that page, and peruses the page once it is stacked into the server.
- 3. *Surfing*: The client starts a surfing session, which is the way toward tapping on links and perusing the pages showed. The client surfing the Web by taking after connections will utilize different signals and devices to expand his or her navigational movement.

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4. *Inquiry adjustment*: The surfing session might be hindered for the reason of inquiry adjustment, when the client chooses to reformulate the first question and resubmit it to the web crawler. For this situation, the client returns to step one (Schwartz, 1998).

#### **Search Engine Design**

The design of a search engine can be seen in Figure 1.

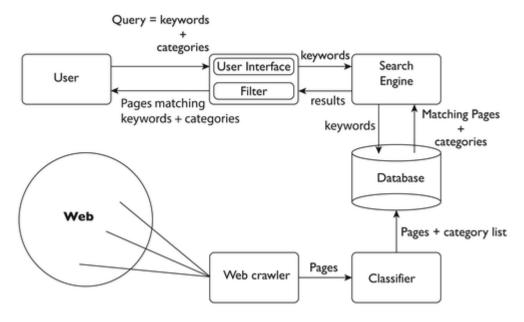


Figure 1. Architectural Design of Search Engine

Source: Chekuri, Goldwasser, Raghavan, and Upfal (1997).

Usually when a client enters a search query into a web crawler, it is a couple keywords. The web index has the names of the destinations containing the keywords, and these are in a flash acquired from the file. The genuine preparing load is in producing the site pages that are the search items list. Every page in the whole rundown must be weighted by data in the web indexes. Then the top search query output requires the lookup, reproduction, and markup of the scraps demonstrating the setting of the keywords coordinated. These are just piece of the preparing each indexed lists page requires, and additionally pages (alongside the top) require a greater amount of this post handling (Harter & Hert, 1997).

**Search Engines and Marketing in the Contemporary Scenario** 

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Google has turned search engine into the essential device used to find data on the web. A few

reviews on client behavior showed that most clients click on sites recorded on the first page of

results and the extent of clients that view sites recorded beyond the third page of results declines

quickly. Accordingly, accomplishing a high positioning in web index results is pivotal to pulling

in traffic to a site and speaks to the central purpose of search engine advertising endeavors (Luh,

Yang, & Huang, 2016).

SEO assist to improve the positioning of a site for the query results for given keywords. SEO

system incorporates two main procedures: Off-page optimization and On-page optimization. Off-

page optimization involves creating back connections on other authenticated websites and

subsequently boosting domain-level and page-level authentication. For On-page optimization,

SEO creates the advancement of website pages utilizing target keywords in the title, snippets and

in the URL. The inclusion of extra terms, semantically identified with the objective keywords, is

viewed as a progressed SEO strategy (Moreno & Martinez, 2013).

**Objectives of the Study** 

• To understand the impact of SEO on the marketing performance of the organization.

• To compare SEO as an advertising tool with other traditional marketing tools.

• To identify the implications on the customer's perception about SEO as a marketing tool.

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**Review of Literature** 

Various researchers have illustrated about the SEO and its importance in our daily life. Search

engine marketing is the quickest developing promoting medium on the planet, anticipated to

progress toward becoming many times more intense and powerful than customary media outlet.

Search engines are the essential search tools utilized for data recovery on the Web. It has been

assessed that most of Web clients utilize search engines to acquire data from the Web. This

highlights the fundamental significance of website pages being recorded with web search tools.

An essential system for any site proprietor is arranging how guests can discover their way to their

specific website (Berman & Katona, 2013).

The search engine acts as a mediator amongst shoppers and sites. It will likely furnish shoppers

with links to the most noteworthy quality sites on the organic side. To rank sites, the web search

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tool scores every site on its assessed quality utilizing data assembled from the Internet utilizing crawling calculations and information mining strategies. The users while utilizing a search engine are affected by the search engine marketing decisions made by site proprietors and by the mechanism of the search engine. Site proprietors can decide to put resources into SEO push to advance their site in organic postings and also offer for sponsored connections (Lovatt & Legge, 2014). SEO matters in light of the fact that without it a site or the webpage will show up lower in the search results it conceivably could what's more, therefore will get less visits (Xu, Chen, & Whinston, 2012).

Marketers utilize SEO to build the position of their postings in the organic indexed search results which are created by the search engine's restrictive ranking calculations. The positioning depicts the importance of the match between the searcher's search inquiry and the sites in the web crawler's file. With SEO, marketers attempt to improve their websites so they are seen as more significant by the rank in order to gain better market share (Sen, 2005). SEO is favorable for marketers because they do not have to spend for web traffic from organic ads. Another significant aspect about SEO is it provides continuous and real-time insights about the online behavior of the consumer.

Thus, SEO is a need to be performed on an ongoing basis. Comparing SEO with the traditional methods of marketing, the analysis of results and prediction of consumer behavior usually take months to manifest, on the contrary, SEO provides real-time analysis of consumer online behavior. SEO offers markets a more knowledgeable medium to emerge for required search queries at high ranks on the search engines (Yang & Ghose, 2010). The cost of a webpage facilitating services is diminishing; this approach would undoubtedly turn online marketing to be less expensive. In such a situation, there would be expanding number of on-line venders providing SEO services. All the leading search engines constructed a logical model that makes it conceivable for the marketers to compare search engine marketing strategies in terms of their impact on the profitability of on-line marketers (Taylor, 2013).

On-line purchasers utilize search engines to scan for and price information. In the process of finishing the search process, the purchaser structures a thought set that comprises the dealers whose websites were visited during the search. Site URLs in print ads, marketers, draw the attention of

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the target audience to their Web destinations search engines have turned into a starting point for information searches and a navigational aid to finding pages on the Internet. The SEO is for the most part considered to either be a substitute for or a supplement to traditional media (Chen & He, 2011).

Search engines rank search query results based on wide range of algorithmic and quality factors. Anyone can get you more traffic, however, would they be able to get you traffic focused to your business keywords that creates quality changing over leads. At the point when done appropriately by experts, SEO can get an enormous advantage of site improvement is round the clock marketing. A very much enhanced site will rank throughout the day consistently (Lorigo et al., 2006). Marketer can reduce server stress and load times, which lead to speedier pages, happier search engine spiders, and retained visitors by validating code and optimizing files. The best favorable position of SEO administrations is sales! The website is effortlessly accessible to the huge part of the online clients. A superior streamlined and outlined site magnetizes lot of searchers (Smith, 2010). The act of SEO can altogether build a better website ranking, driving more traffic movement to the site, and subsequently expanding revenue (Zhang & Cabage, 2016). SEO is an essential apparatus to expand a webpage's visibility for marketers who can bear to pay more. The larger part of online sponsors put resources into both SEO also, sponsored search engine marketing and faces a vital problem in the matter of how to dispense their financial plan between the two exercises (Roy, Datta, & Basu, 2016). SEO will be around as long as search engines are around and search engines will be around as long as individuals search for data (Dover, 2011).

#### **Research Design**

"Web search tool" is a developing marvel, so an exploratory research was conducted for comprehension of different viewpoints. The researcher inspected the diverse publicizing elements of the search engines that affect the gathering of the users toward the substance of the page on the different web search tools. Causal research configuration actualized to comprehend the effect of web crawler on the segments of publicizing recognized under writing survey. The framework had been incited to detail a subjective system for overhauled understanding for this complex and dynamic phenomenon. To break down this subject, the underlying stride was the examination of

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the noteworthy composition to build up an understanding about various parameters of search

engine for the pay per click marketing strategy.

**Research Process** 

The investigation took after a successive procedure, moving through three noteworthy stages

where each stage took after particular strategies that are recorded as take after:

1. Identification of all the conceivable factors which sets up pay per click as a promoting

instrument through literature audit.

2. Combining the factors into important number of elements by means of exploratory factor

analysis.

3. Study the connection between the factors for theoretical testing by means of multiple

regression.

**Hypothesis** 

The motivation behind this exploration is to research the advantageous impact of the SEO on the

viewer's response. With knowledge of the past writings and results of factor analysis the

advantages of the SEO had been arranged into five fundamental measurements:

• H1: Greater the level of search engine optimization, the better consumer insights available

to the marketer.

• H2: Greater the level of search engine optimization, the better brand equity available to

the marketer.

• *H3*: Greater the level of search engine optimization, the better product awareness provided

to the consumer.

• H4: Greater the level of search engine optimization, the better purchase persuasion

created by the marketer for the user.

• H5: Greater the level of search engine optimization, the better market share available to

the marketer.

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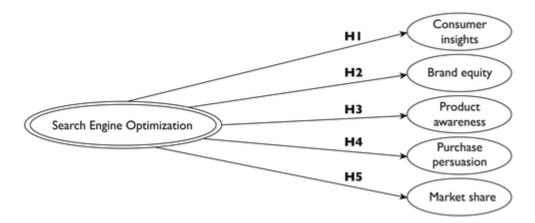


Figure 2. Advantages of Search Engine Optimization

Source: Author's compilation, proposed conceptual model developed for the study.

#### **Findings**

The data gathered were normally distributed, as the data were checked for multi-co linearity and heteroscedasticity. The 15 variables were identified and were used for exploratory factor analysis which was reduced to five factors by using the principal component analysis and varimax rotation method. The identified factors are as follows:

- Factor 1: Consumer insights consist of variables: consumer online behavior, information searched by the user, consumer dissonance after purchase, feedback mechanism, and search engine analytics.
- *Factor 2:* Brand equity consists of variables: brand commitment, brand loyalty, brand image, and brand awareness.
- *Factor 3:* Product awareness consists of variables: brand recognition, product information, and product price.
- Factor 4: Purchase persuasion consists of variables; user reviews and scarcity of products.

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#### • Factor 5: Market share.

The results of data analysis are segmented into two sections. The first section consists of descriptive statistics of demographic and search engine profile of the respondents, and the majority of the respondents between the age of 20 and 25 years with graduate level of education uses Google as their prominent search engine for mostly 15–60 minutes in order to obtain updates and information. The second section, on other hand, consists of statistical and hypothetical analysis of the identified variables. SEO as a marketing tool (F-value 85.07 and p-value < 0.0001) has significant impact on the consumers. The most prominent advantages of SEO identified in the research is it helps to increase market share (p-value = 0.3219), enhances the brand equity of the marketer (p-value = 0.0106) followed by other factors, that is, product awareness, purchase persuasion, and consumer insights.

#### Conclusion

Just how big a difference will SEO make to the way customers buy things? The authors suspect that this question hovers in the minds of most marketers. We can see the changes that are taking place, can track the explosive growth in access to the Internet, and can speculate about how marketing will transfer to this exciting new medium. Hence authors examine the impact of SEO as marketing tool to understand the marketing parameters which get impacted the most by SEO. In the e-shopping environment, it is necessary for the marketer to understand which marketing parameters gain strength due to SEO, so as to develop strategies accordingly.

The findings of this study improve the understanding of impact of SEO on various marketing parameters and can be used to assist marketers in developing appropriate and effective strategies accordingly. This study considered many marketing variables such as market share, brand loyalty, brand recognition, product price, product information, brand image, brand awareness, consumer online behavior, and user reviews. The empirical results reveal that SEO has the most prominent advantages in increasing market share, enhance brand equity of the product followed by other factors, that is, product awareness, purchase persuasion, and consumer insight. The findings indicate that marketers should pay particular attention to SEO as it can have a long-lasting effect on multiple marketing variables.

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