UNIT-7

Optimizing F-commerce Systems

@. Search Engine Optimization (SFO):

SEO 18 the process of emproving the reaching of web pages with search engines such that the website link appears on the top of search results. and It is easy for users to find the website. By carefully selecting key words used on the web pages, updating content frequently, and designing the site so it can be easy read by search engine programs, marketers can improve the empact and return on envestment in their web marketing programs. Marketers want to make sure that when a potential customer enters search terms that relate to their products or services, their companies web site URLs appear among the first 10 returned listings, which can be possible by SEO.

. Working mechanism of Search Engines:

A search engine 18 a software accessible through a Web 88th. that helps people find things on the Web. Search engines contain three major parts: Spider, Index and Search utility.

Deb to find Web pages that might be interesting to people. When the spaces finds Web pages, it collects the URL of might include the page's tetbe, keywords included in the pages and information don't other pages on Web site. The keywords are enclosed in an HTML tag set called meta tags.

2) Index: The store element of a search engine is called its Index or database. The spader returns information to the andex. The index checks to see if information about Web page -18 already stored. If It 18, It compares the stored information to the new information and determines whether to update the page information. The index is designed to allow fast searches of the very large amount of stored information.

3 Search Utility: Search utility takes search terms, and finds entries for Web pages in its index that match those search terms. The search utility program creates a Web page that is a list of links to URLs that the search engine has found on the onder that match the site visitor's search terms. The visitor can then click the links to visit those sites.

€. On-page SFO:

-On-page SEO includes providing good content, good keyword selection, putling keywords in correct places, giving an appropriate ditte for every page, etc.

-> On-page SEO will analyze the complete website.

-> On-page SEO will use internal linking.

> URL optimization, Internal links, External links, Optimize page content, Rublish high-quality content etc. are techniques that are used en one-page SEO.

-> On-page SEO looks at what our site is about.

> Internal Lanking, Mobile Friendly, Navigation, Content Quality, Page speed etc. are factors that impact On-page SEO.

@ Off-Page SEO:

→ Off-page SEO ancludes link building, increasing link popularity, search engine, link exchange etc.

-> In off-page SEO we will promote the website.

-> In off-page SEO we will use direct linking.

Files, Forum Submission, Article Submission etc. are techniques that are used in off-page SEO.

-> Off-page SEO looks at how popular our site 18.

-> Social Media, Backlinks, Mentions, Grougle. Business Profile etc. are factors that impact Off-page SEO.

Rage Rank:

Page Rank (PR) 18 an algorithm used by Google Search Engine to rank web pages in their search engine results. Page Rank is a way of measuring the importance of website pages. Page Rank was named after larry Page, me of the founders of Google. According to Google, "Page Rank works by counting the number and quality of links to a page to determine a rough estimate of how important the website 18. The underlying assumption is that more important websites are likely to receive more links from other websites." Currently, Page Rank results, but it is the first algorithm that was used by the company, and it is the best known.

- Ø. SEO activities to improve rank of the websites [Model Set]
- 2 Use Google Analytics to Track Metrics: One of the first things any SEO should do is get familiar with Google Analytics. Learn all about our site's performance, audience demographics, and much more.
- performance over time, we can see, which pages are doing well and which need to be revisited.
 - 3) Create Content Based on Keywords: Spamming pages with keywords is an ancient SEO tactic. Instead, perform through beyword vresearch and build a content strategy around our findings.
 - 4) Diversify Backlink Portfolio: A varied backlink portfolio tells Grougle that site is an authoritative source and that we're generating links in a natural way versus relying on outdated spam tactics.
- v 5) Optimize Images: Provide all text for every mage, make mage files as mall as possible without compromising on quality, and ensure mages display correctly on mobile devices.
- Make Suze Site 48 Mobile-Friendly: Most users seach via their mobile devices. Run site through Grougle's Mobile-Friendly Test and adjust as needed.
- W Decrease Load Times: It's difficult to get user stay on slow website. Ensure that site runs smoothly. Use Site Audit to dentify potential assues.
- Amportant to track our results. This way, we can test what works well, find out what doesn't, and report on regults.

The systems that use algorithms, to find similar Hems and similar customers, based on their behaviour and interest are known as secommendation systems. A recommendation system is a tool that uses a series of algorithms, data analysis and AI to make recommendations online. These systems are used to predict users interests and recommend product items that might be interesting for them. For example: If we buy T-shirt from an ecommerce ofte, then next time when we visit the website, it suggests us various types of T-shirts and other clothing items of it we are interested in buying certain product. Recommendation systems use following kinds of Vento/data to make prediction about users preferences:

-> User reating about a product.

> Search engine queries made by user.
> User's purchase histories.

Advantages of recommendation Eystems:

-> Increase on sales as a result of very personalized offers and an enhanced customer experience.

> User can search glem very fast of their Interest.

out emails with links to new offers that meet customers.

-> Because of recommendation, the user 18 more likely to buy additional products or consume more content.

Types of Recommendation Systems:

1) Content-based systems: These systems make recommendations using a user's 9 tem and profile features. They check that if a user was interested in 9t in the future. Similar 9 tems are

usually grouped based on their features. User profiles are constructed using historical interactions or by explicitly asking users about their interests.

2) Collaborative filtering system: It is currently one of the most frequently used approach and usually provides better results than content-based recommendations. Some examples of this are found on the recommendation systems of Youtube, Netflix. These kinds of systems utilize user interactions to filter for items of interest.

@ Use of Recommendation Systems in E-commerce:

e-commerce systems have become further convenient and common in our daily lives. There are various types of products in shopping 89 tes, therefore there 48 a problem for client to find out the stem of their interest. Therefore an appropriate recommendation system will be essential for e-commerce system. A recommendation system acquires information from a client and recommends goods that will find most valued among existing products.

In numerous decision-making ability. Recommendation systems In e-commerce helps to increase sales, search them of oustomers interest very fast, and gain as well as retain customers. Many of the largest e-commerce web sites are using recommendation systems to help their customers find products to purchase.

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