

## TERM PROJECT ABSTRACT

Year: II B. Tech - CSM

Date: 11/09/2024

Section:

A

Project Category No

01

Name of the student: ADHIMULAM BHARGAV SAI VISWANATH

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Project Category : WEB SCRAPPING

Title of the Project : HARNESSING WEB SCRAPING TO ANALYZE AMAZON PRODUCT TRENDS

**Abstract:** (not more than 300 words):

The project I have chosen is web scraping, which aims to extract valuable information from a selected website. I have selected the Amazon website to gather publicly available information accessible to all users. To accomplish this, I will utilize various libraries, including BeautifulSoup, Selenium, Scrapy, and Pandas, each serving specific purposes in the data extraction process.

The main uses of this web scraping project include data collection for analysis, price monitoring, market research, and competitive analysis. By scraping data from Amazon, I can obtain insights that aid in understanding market trends and product performance. The inputs for this project consist of the website URL, specific product information to extract (such as product name, product ID, product category, product description, product specifications, offers, amount, number of ratings, and expected delivery date), and the chosen libraries that will facilitate the scraping process.

The overall process includes defining the target URLs, analysing the website structure to identify relevant data elements, and writing the scraping code using the specified libraries. Once the code is executed, the data will be extracted from the website and organized into a structured format.

The output of this project will be stored in an Excel or CSV file, which will contain the scraped data organized in rows and columns for easy readability. This structured format allows for straightforward analysis and visualization, helping to highlight comparisons between the various attributes. A comprehensive report detailing the project findings will also be submitted within one to two months following its completion. Thank you for considering this overview of my web scraping project.

Signature of the student

Signature of the Guide