





Web mining involves extracting useful information from the vast amount of data available on the World Wide Web.

Here's a step-by-step guide to help you get started with web mining:

1. Understand the Basics:

- Learn about HTML, CSS, and JavaScript and understand how websites are structured

2. Choose a Programming Language:

- Python is a popular choice for web mining
- Other languages like JavaScript (with Node.js), Ruby, or PHP can also be used

3. Learn Web Scraping Libraries:

- BeautifulSoup - Scrapy - Selenium

4. Understand HTTP and Web Requests:

- Learn about HTTP methods (GET, POST, etc.) and status codes (200 OK, 404 Not Found, etc.).
- Familiarize yourself with making HTTP requests using libraries like Requests in Python.

5. Start with Simple Projects:

- Choose a simple website to scrape initially. Avoid scraping large or complex websites until you have gained more experience.
- Practice extracting different types of data such as text, images, links, etc.
- Experiment with different scraping techniques and libraries to understand their strengths and weaknesses.

6. Handle Parsing Challenges:

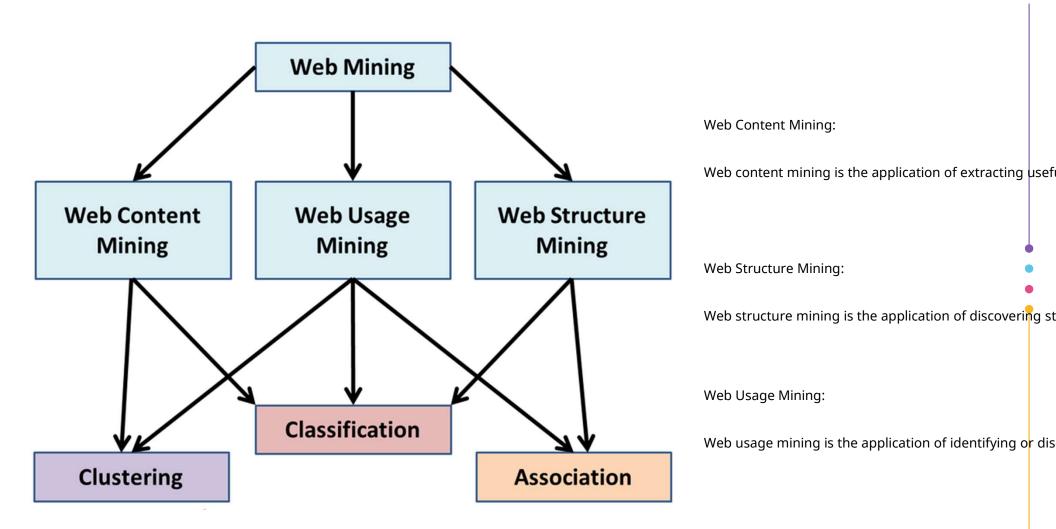
- Web pages can be poorly structured or inconsistently formatted, making parsing difficult. Learn how to handle such challenges using techniques like regular expres

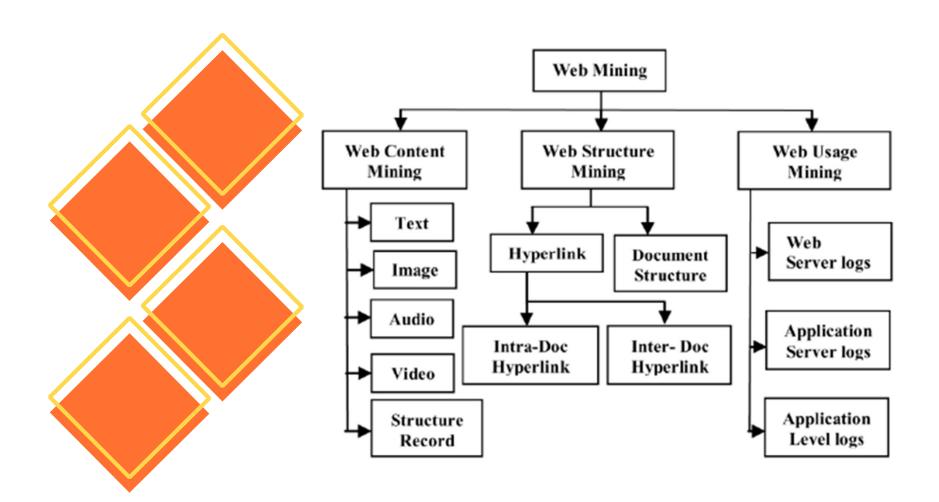
7. Data Storage and Analysis:

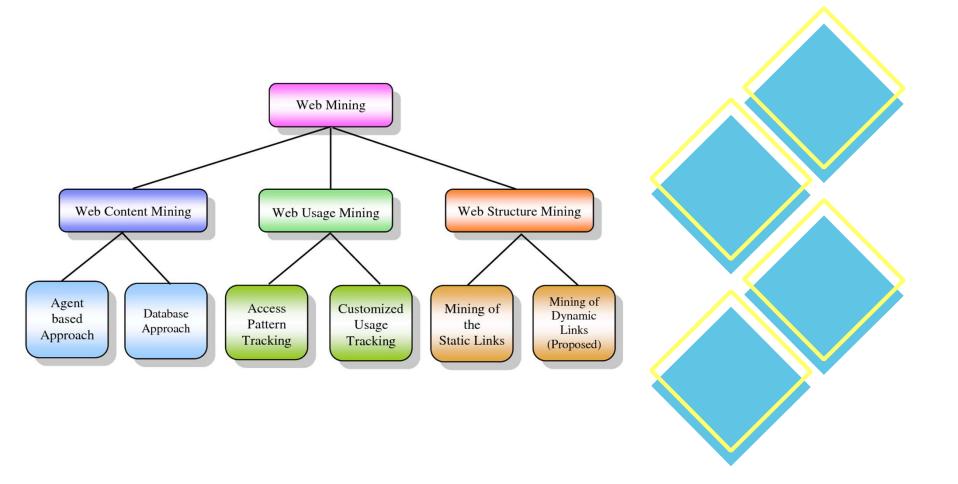
- Decide how you want to store the scraped data. Options include saving to a file (CSV, JSON, etc.), storing in a database, or integrating with other tools for analysis.
- Use data analysis and visualization libraries like Pandas, NumPy, and Matplotlib to analyze and visualize the scraped data.

Extracting all link from MSKU Website

```
import requests
                                                         import scrapy
from bs4 import BeautifulSoup
                                                         class MySpider(scrapy.Spider):
                                                           name = 'example_spider'
# URL to scrape
url = 'https://www.mu.edu.tr/'
                                                           start urls = ['https://example.com']
# Send a GET request to the URL
                                                           def parse(self, response):
                                                              # Extract specific information
response = requests.get(url)
                                                              # Example: Extracting text content from all paragraphs
# Parse the HTML content using BeautifulSoup
                                                              paragraphs = response.css('p::text').extract()
soup = BeautifulSoup(response.text, 'html.parser')
                                                              for paragraph in paragraphs:
                                                                print(paragraph)
# Extract specific information
# Example: Extracting all the links on the page
                                                              # Follow links to other pages if needed
links = soup.find_all('a')
                                                              # Example: Follow links to other pages
                                                              for next page in response.css('a::attr(href)').extract():
for link in links:
                                                                vield response.follow(next page, self.parse)
  print(link.get('href'))
```



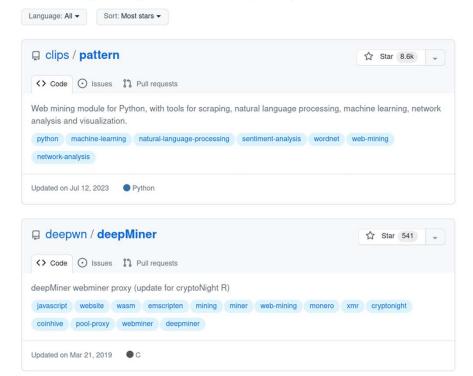


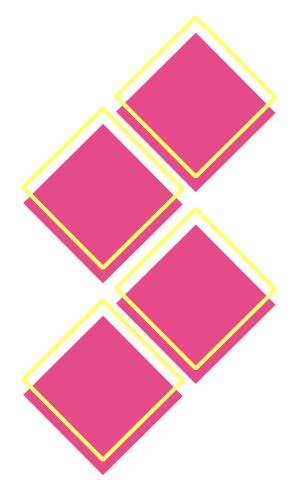


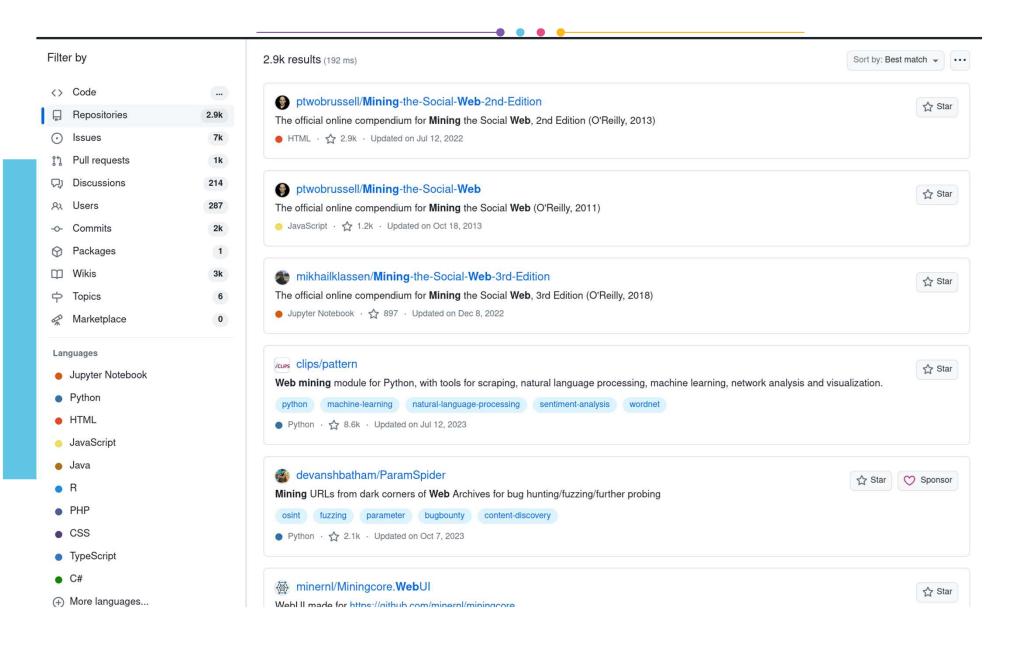




Here are 62 public repositories matching this topic...







Pattern

build no longer available coverage 68% pypi v3.6 License BSD 3-Clause

Pattern is a web mining module for Python. It has tools for:

- Data Mining: web services (Google, Twitter, Wikipedia), web crawler, HTML DOM parser
- Natural Language Processing: part-of-speech taggers, n-gram search, sentiment analysis, WordNet
- Machine Learning: vector space model, clustering, classification (KNN, SVM, Perceptron)
- Network Analysis: graph centrality and visualization.

It is well documented, thoroughly tested with 350+ unit tests and comes bundled with 50+ examples. The source code is licensed under BSD.



c imp

Example

This example trains a classifier on adjectives mined from Twitter using Python 3. First, tweets that contain hashtag #win or #fail are collected. For example: "\$20 tip off a sweet little old lady today #win". The word part-of-speech tags are then parsed, keeping only adjectives. Each tweet is transformed to a vector, a dictionary of adjective → count items, labeled win or FAIL. The classifier uses the vectors to learn which other tweets look more like win or more like FAIL.

```
ſĠ
from pattern.web import Twitter
from pattern.en import tag
from pattern.vector import KNN, count
twitter, knn = Twitter(), KNN()
for i in range(1, 3):
    for tweet in twitter.search('#win OR #fail', start=i, count=100):
        s = tweet.text.lower()
        p = '#win' in s and 'WIN' or 'FAIL'
        v = tag(s)
        v = [word for word, pos in v if pos == 'JJ'] # JJ = adjective
        v = count(v) # {'sweet': 1}
        if v:
            knn.train(v, type=p)
print(knn.classify('sweet potato burger'))
print(knn.classify('stupid autocorrect'))
```



