

Wikipedia Top Companies Web Scrapping

**A project Submitted to the
IT Vedant Institute, Thane**

Data Science & Analytics With AI



Python Web Scrapping Project

BY

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Under the Guidance of


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Top Companies In India


Indian Companies by Market Cap


From sources across the web


Reliance Industries


Tata Consultancy Services


HDFC Bank


Bharti Airtel


ICICI Bank


State Bank of India


Infosys


ITC

Hindustan Unilever

Larsen & Toubro

NTPC

Oil and Natural Gas Corp...

UltraTech Cement Ltd

Using Python And BeautifulSoup

Description:

Designed and implemented a Python project using BeautifulSoup, Request to scrape data on top companies in India. Extracted information such as rankings and industry sectors. Processed and analyzed the data to identify key trends. Created a comprehensive PDF report summarizing the findings, incorporating tables and visualizations for clear presentation. This project highlights proficiency in web scraping, data analysis, and report generation.

Outline:





From this site, we are going to grab the following information:


- Company
- Industry
- Sector
- Main Office Located
- Start-up Date

Steps:

Choose the Website and Webpage URL

Inspect the Website

Rank	Image	Name	2019 revenues (USD \$M)	Employees	Notes
106		Reliance Industries	\$82,331	194,056	Reliance Industries is a true conglomerate with interests in energy, petrochemicals, textiles, natural resources, retail, and telecommunications.
117		Indian Oil Corporation	\$77,587	35,442	Indian Oil provides products and services all along the energy value chain, and is India's largest commercial entity. The firm has been on the Global 500 as long as the list has been recorded.
160		Oil and Natural Gas Corporation	\$61,420	43,743	State-owned crude oil and gas company, currently the largest in India.
236		State Bank of India	\$47,286	257,252	The bank is a state-owned, multi-national financial services entity, founded in 1805 as the Bank of Calcutta. The firm



Installing the important libraries

Python has several web scrapping libraries, We will use the following libraries

- Request
- BeautifulSoup
- Pandas

Write the python code for exporting the extracted data

Top Companies Web Scrapping Coding

Accessing the Website using request and BeautifulSoup libraries,
And using html.parser

```
import requests
from bs4 import BeautifulSoup

url = "https://en.wikipedia.org/wiki/List_of_companies_of_India"
response = requests.get(url)
response

<Response [200]>
```

```
[3]: soup = BeautifulSoup(response.content, "html.parser")

[4]: # Find all td elements
td_elements = soup.find_all("td")
# td_elements

[5]: # Extract text from each td element
import re
list_general=[]
for td in td_elements:

    text = td.get_text()
    text1=re.sub("\n", " ",text)
    list_general.append(text1)

list_general

'Oil and Natural Gas Corporation ',
'$61,420 ',
'43,743 ',
'State-owned crude oil and gas company, currently the largest in India. ',
'236 ',
' ',
'State Bank of India ',
'$47,286 ',
'257,252 ',
'The bank is a state-owned, multi-national financial services entity, founded in 1886 as the Bank of Calcutta. The firm operates in more than 36 coun
tries. ',
'275 ',
' ',
'Bharat Petroleum ',
'$42,935 ',
'12,865 ',
'Government controlled oil and gas company in Mumbai, operating large refineries in Kochi and Mumbai. ',
'63 Moons Technologies ',
```

Let us find their index in the list

```
[6]: # The data we want to extract starts with name: Moons Technologies
# The last name in the table is : Zydu Lifesciences
search_first_row_text='63 Moons Technologies '
search_last_row_text='Zydu Lifesciences '

[7]: # let us find their index in the list
search_index_first_row=list_general.index(search_first_row_text)
search_index_last_row=list_general.index(search_last_row_text)

print("The index of the '63 Moons Technologies' in the above list is: ",search_index_first_row)
print("The index of the 'Zydu Lifesciences' in the above list is: ",search_index_last_row)

The index of the '63 Moons Technologies' in the above list is: 30
The index of the 'Zydu Lifesciences' in the above list is: 3958
```

Extracting Table-Only content from the above list.

```
[8]: # Extracting Table-Only content from the above list
new_list=[]
for i in range(search_index_first_row,search_index_last_row+5):
    new_list.append(list_general[i])
print(new_list)
```

```
['63 Moons Technologies ', 'Technology ', 'Software ', 'Mumbai ', '1988 ', 'Financial technology ', 'P ', 'A ', 'Aban Offshore ', 'Energy ', 'Oil & gas offshore drilling & other services ', 'Chennai ', '1986 ', 'Oil, petrochemical ', 'P ', 'A ', 'ABG Shipyard ', 'Industrials ', 'Shipbuilding ', 'Ahmedabad ', '1985 ', 'Ship engineering ', 'P ', 'A ', 'ABP Group ', 'Consumer services ', 'Broadcasting & entertainment ', 'Kolkata ', '1922 ', 'Media, news ', 'P ', 'A ', 'ACC ', 'Industrials ', 'Cement ', 'Mumbai ', '1936 ', 'Cement ', 'P ', 'A ', 'ACG Group ', 'Industrials ', 'Machinery: specialty ', 'Mumbai ', '1961 ', 'Pharmaceutical industry machinery & medicinal materials manufacturer ', 'P ', 'A ', 'Acko General Insurance ', 'Insurance ', 'Full line insurance ', 'Mumbai ', '2016 ', 'Insurance ', 'P ', 'A ', 'Action Construction Equipment ', 'Industrials ', 'Machinery: construction & handling ', 'Faridabad ', '1995 ', 'Bulldozers, cranes ', 'P ', 'A ', 'Action Group ', 'Conglomerate ', '-', 'New Delhi ', '1972 ', 'Apparel, chemicals, retail, steel ', 'P ', 'A ', 'Adani Group ', 'Conglomerate ', '-', 'Ahmedabad ', '1988 ', 'Conglomerate ', 'P ', 'A ', 'Adani Power ', 'Utilities ', 'Alternative electricity ', 'Mumbai ', '1910 ', 'Thermal & solar power generation, part of Adani Group ', 'P ', 'A ', 'Aditya Birla Fashion and Retail ', 'Retail ', 'Apparel retailers ', 'Mumbai ', '1997 ', 'Clothing retailer ', 'P ', 'A ', 'Aditya Birla Group ', 'Conglomerate ', '-', 'Mumbai ', '1857 ', 'Agribusiness, cement, chemicals ', 'P ', 'A ', 'Ador Group ', 'Conglomerate ', '-', 'Mumbai ', '1977 ', 'Electronics, energy, chemicals ', 'P ', 'A ', 'Advanced Weapons and Equipment India ', 'Industrials ', 'Defense ', 'Kanpur ', '2021 ', 'Weapons ', 'S ', 'A ', 'Afcons Infrastructure ', 'Industrials ', 'Construction ', 'Mumbai ', '1959 ', 'Constructions ', 'P ', 'A ', 'Agriculture Insurance Company of India ', 'Insurance ', 'Full line insurance ', 'New Delhi ', '2002 ', 'Insurance ', 'S ', 'A ', 'Air Costa ', 'Consumer services ', 'Airlines ', 'Vijayawada ', '2013 ', 'Defunct 2017 ', 'P ', 'D ', 'Air India ', 'Consumer services ', 'Airlines ', 'New Delhi ', '1932 ', 'Airline, part of Tata Sons ', 'P ', 'A ', 'Air India Express ', 'Consumer services ', 'Airlines ', 'Kochi ', '2005 ', 'Low-cost airline, part of Air India ', 'P ', 'A ', 'Ajanta Group ', 'Conglomerate ', '-', 'Ahmedabad ', '1971 ', 'Textile, transport, construction machinery ', 'P ', 'A ', 'Alkem Laboratories ', 'Health care ', 'Pharmaceuticals ', 'Mumbai ', '1973 ', 'Pharma ', 'P ', 'A ', 'Allcargo logistics ', 'Industrials ', 'Transportation services ', 'Mumbai ', '1993 ', 'Logistics & transportation ', 'P ']
```


Now accessing the Companies Name

```
[5]: # Extract text from each td element
import re
list_general=[]
for td in td_elements:

    text = td.get_text()
    text1=re.sub("\n"," ",text)
    list_general.append(text1)

list_general

[5]: ['186 ',
      ' ',
      'Reliance Industries ',
      '$82,331 ',
      '194,856 ',
      'Reliance Industries is a true conglomerate with interests in energy, petrochemicals, textiles, natural resources, retail, and telecommunications. ',
      '117 ',
      ' ',
      'Indian Oil Corporation ',
      '$77,587 ',
      '35,442 ',
      'Indian Oil provides products and services all along the energy value chain, and is India's largest commercial entity. The firm has been on the Global 500 as long as the list has been recorded. ',
      '160 ',
      ' ',
      'Oil and Natural Gas Corporation ',
      '$61,429 ',
      '43 743 ']
```

```
[9]: # Making separate list of names
Company_Names=[]
for i in range(0,len(new_list),8):
    Company_Names.append(new_list[i])
print(Company_Names)

['63 Moons Technologies ', 'Aban Offshore ', 'ABG Shipyard ', 'ABP Group ', 'ACC ', 'ACG Group ', 'Acko General Insurance ', 'Action Construction Equipment ', 'Action Group ', 'Adani Group ', 'Adani Power ', 'Aditya Birla Fashion and Retail ', 'Aditya Birla Group ', 'Ador Group ', 'Advanced Weapons and Equipment India ', 'Afrcons Infrastructure ', 'Agriculture Insurance Company of India ', 'Air Costa ', 'Air India ', 'Air India Express ', 'Ajanta Group ', 'Alkem Laboratories ', 'Allcargo Logistics ', 'Amartex ', 'Ambuja Cements ', 'Amrutanjan Healthcare ', 'Amul ', 'Angel One ', 'Apollo Hospitals ', 'Apollo Tyres ', 'Aptech ', 'Archies ', 'Arisa India ', 'Armoured Vehicles Nigam ', 'Artemis Hospital ', 'Arvind ', 'Ashok Leyland ', 'Asia MotorWorks ', 'Asian Paints ', 'Atul ', 'Atul Auto ', 'Avantha Group ', 'Axis Bank ', 'Bajaj Auto ', 'Bajaj Group ', 'Balaji Telefilms ', 'Balaji Wafers ', 'Ballarpur Industries ', 'Bank of Baroda ', 'Bank of India ', 'Bank of Maharashtra ', 'Bellatrix Aerospace ', 'BEML ', 'BGR Energy Systems ', 'Bharat Aluminium Company ', 'Bharat Biotech ', 'Bharat Dynamics Limited ', 'Bharat Electronics ', 'Bharat Forge ', 'Bharat Heavy Electricals Limited ', 'Bharat Petroleum ', 'Bharat Sanchar Nigam Limited ', 'BHAVINI ', 'Bharti Airtel ', 'Biocon ', 'Blue Star ', 'BluSmart Mobility ', 'Bombay Dyeing ', 'Bonn Group of Industries ', 'Borosil ', 'BPCL Group ', 'BrahMos Aerospace ', 'Brigade Enterprises ', 'Britannia Industries ', 'Café Coffee Day ', 'Canara Bank ', 'Caratlane ', 'CEAT ', 'Celkon ', 'Central Bank of India ', 'Centum Electronics ', 'Century Plyboards ', 'CESC Limited ', 'CG Power and Industrial Solutions ', 'Chennai Petroleum Corporation ', 'Cipla ', 'City Union Bank ', 'CMCL ', 'Coal India ', 'Cochin Minerals and Rutile Limited ', 'Cochin Shipyard ', 'Computer Age Management Services ', 'Container Corporation of India ', 'Coromandel International ', 'Cosmic Circuits ', 'Crossword Bookstores ', 'CSB Bank ', 'Cyient ', 'Dabur ', 'Dawood Valley Corporation ', 'Datastics ', 'Deccan Charters ', 'Dedicated Freight Corridor Corporation of India ', 'Dempo ', 'Dena Bank ', 'Dish TV ', 'Dixon Technologies ', 'DLF ', 'DMart ', 'Dr. Reddy's Laboratories ', 'Dynamatic Technologies ', 'EaseMyTrip ', 'Edelweiss Group ', 'Eicher Motors ', 'EID Parry ', 'Electronics Corporation of India Limited ', 'elintus ', 'Enam ', 'Emcare Pharmaceuticals ', 'Engineers India ', 'English Indian Clays ', 'Escorts Kubota Limited ', 'Essar Group ', 'Essel Group ', 'Eureka Forbes ', 'Eveready Industries India ', 'Exide Industries ', 'Exide Life Insurance ', 'Federal Bank ', 'Firstsource ', 'Flipkart ', 'Forbes & Company Limited ', 'Force Motors ', 'Fortis Healthcare ', 'Future Group ', 'GAIL ', 'Galaxy Surfactants ', 'Garden Reach Shipbuilders & Engineers ', 'Geojit Financial Services ', 'Gini & Jony ', 'Glenmark Pharmaceuticals ', 'Glider s India ', 'GMR Group ', 'Go First ', 'Goa Shipyard ', 'Godrej Group ', 'Great Eastern Shipping ', 'Greaves Cotton ', 'Greenply ', 'Gujarat Alkalies and Chemicals Limited ', 'Gujarat Mineral Development Corporation ', 'Gujarat State Fertilizers and Chemicals ', 'Gujarat State Petroleum Corporation ', 'GVK Industries ', 'Haldipras ', 'Haptik ', 'Hatsun Agro Product ', 'Havells ', 'Hawkins Cookers ', 'HCLTech ', 'HDFC Bank ', 'HIL ', 'Hero Cycles ', 'Hero FinCorp ', 'Hero MotoCorp ', 'HFCL ', 'Himalaya Wellness Company ', 'Hindalco Industries ', 'Hinduja Group ', 'Hinduja Healthcare ', 'Hindustan Aeronautics Limited ', 'Hindustan Construction Company ', 'Hindustan Copper ', 'Hindustan Motors ', 'Hindustan Petroleum ', 'Hindustan Shipyard ', 'Hindustan Times ', 'Hindustan Unilever ', 'Hindustan Zinc ', 'HLL Lifecare ', 'HMT Limited ', 'Housing Development Finance Corporation ', 'iball ', 'ICICI Bank ', 'IDBI Bank ', 'IDFC First Bank ', 'Indegene ', 'India Cements ', 'India Optel ', 'Indiabulls ', 'India Infoline ', 'Indian Bank ', 'Indian Hotels Company Limited ']
```

Accessing Industry Type of Companies

```
Industry_type=[]
for i in range(1,len(new_list),8):
    Industry_type.append(new_list[i])$
print(Industry_type)
```

['Technology ', 'Energy ', 'Industrials ', 'Consumer services ', 'Industrials ', 'Industrials ', 'Insurance ', 'Industrials ', 'Conglomerate ', 'Conglom
erate ', 'Utilities ', 'Retail ', 'Conglomerate ', 'Conglomerate ', 'Industrials ', 'Industrials ', 'Insurance ', 'Consumer services ', 'Consumer servic
'es ', 'Consumer services ', 'Conglomerate ', 'Health care ', 'Industrials ', 'Retail ', 'Industrials ', 'Health care ', 'Consumer goods ', 'Financials'
, 'Health care ', 'Consumer goods ', 'Industrials ', 'Retail ', 'Consumer goods ', 'Industrials ', 'Health care ', 'Conglomerate ', 'Industrials ', 'In
dustrials ', 'Industrials ', 'Chemicals ', 'Consumer goods ', 'Conglomerate ', 'Financials ', 'Consumer goods ', 'Conglomerate ', 'Consumer services ',
'Consumer goods ', 'Basic materials ', 'Financials ', 'Financials ', 'Financials ', 'Industrials ', 'Industrials ', 'Industrials ', 'Basic materials ',
'Health care ', 'Industrials ', 'Industrials ', 'Industrials ', 'Industrials ', 'Energy ', 'Telecommunications ', 'Energy ', 'Telecommunications ', 'Hea
lth care ', 'Consumer goods ', 'Consumer goods ', 'Basic materials ', 'Consumer goods ', 'Industrials ', 'Consumer goods ', 'Industrials ', 'Real estate'
, 'Consumer goods ', 'Consumer services ', 'Financials ', 'Retail ', 'Consumer goods ', 'Consumer goods ', 'Financials ', 'Industrials ', 'Industrials'
, 'Utilities ', 'Industrials ', 'Energy ', 'Health care ', 'Financials ', 'Industrials ', 'Energy ', 'Chemicals ', 'Industrials ', 'Financials ', 'Indu
strials ', 'Chemicals ', 'Technology ', 'Retail ', 'Financials ', 'Technology ', 'Health care ', 'Utilities ', 'Technology ', 'Consumer services ', 'Ind
ustrials ', 'Basic materials ', 'Financials ', 'Consumer services ', 'Industrials ', 'Real estate ', 'Retail ', 'Health care ', 'Industrials ', 'Consume
r services ', 'Financials ', 'Industrials ', 'Consumer goods ', 'Industrials ', 'Business services ', 'Conglomerate ', 'Health care ', 'Industrials ',
'Basic materials ', 'Industrials ', 'Conglomerate ', 'Conglomerate ', 'Consumer goods ', 'Consumer goods ', 'Industrials ', 'Financials ', 'Financials'
, 'Industrials ', 'Technology ', 'Conglomerate ', 'Consumer goods ', 'Health care ', 'Retail ', 'Utilities ', 'Chemicals ', 'Industrials ', 'Financials'
, 'Consumer goods ', 'Health care ', 'Industrials ', 'Real estate ', 'Consumer services ', 'Industrials ', 'Conglomerate ', 'Industrials ', 'Industrial
s ', 'Industrials ', 'Chemicals ', 'Basic materials ', 'Chemicals ', 'Energy ', 'Conglomerate ', 'Consumer goods ', 'Technology ', 'Consumer goods ', 'I
ndustrials ', 'Consumer goods ', 'Industrials ', 'Financials ', 'Real estate ', 'Consumer goods ', 'Financials ', 'Consumer goods ', 'Telecommunications'
, 'Health care ', 'Basic materials ', 'Conglomerate ', 'Health care ', 'Industrials ', 'Real estate ', 'Basic materials ', 'Consumer goods ', 'Energy'
, 'Industrials ', 'Consumer services ', 'Consumer goods ', 'Basic materials ', 'Health care ', 'Industrials ', 'Financials ', 'Consumer goods ', 'Finan
cials ', 'Financials ', 'Financials ', 'Health care ', 'Industrials ', 'Industrials ', 'Industrials ', 'Financials ', 'Financials ', 'Financials ', 'Consumer services'
, 'Energy ', 'Financials ', 'Financials ', 'Industrials ', 'Industrials ', 'Telecommunications ', 'Consumer services ', 'Financials ', 'Technology '
, 'Industrials ', 'Financials ', 'Financials ', 'Technology ', 'Industrials ', 'Utilities ', 'Industrials ', 'Industrials ', 'Consumer goods ', 'India
ls ', 'Conglomerate ', 'Technology ', 'Technology ', 'Industrials ', 'Industrials ', 'Consumer goods ', 'Industrials ', 'Conglomerate ', 'Consumer serv
ices ', 'Energy ', 'Telecommunications ', 'Conglomerate ', 'Basic materials ', 'Basic materials ', 'Railways ', 'Utilities ', 'Conglomerate ', 'Consumer

Now, Accessing Industry Sector

```
[16]: Sector_type=[]
      for i in range(2,len(new_list),8):
          Sector_type.append(new_list[i])
      print(Sector_type)
```

['Software ', 'Oil & gas offshore drilling & other services ', 'Shipbuilding ', 'Broadcasting & entertainment ', 'Cement ', 'Machinery: specialty ', 'Full line insurance ', 'Machinery: construction & handling ', '-', '-', '-', 'Alternative electricity ', 'Apparel retailers ', '-', '-', '-', 'Defense ', 'Construction ', 'Full line insurance ', 'Airlines ', 'Airlines ', 'Airlines ', '-', '-', 'Pharmaceuticals ', 'Transportation services ', 'Apparel retailers ', 'Cement ', 'Ayurvedic producers ', 'Food products ', 'Investment services ', 'Health care providers ', 'Tires ', 'Business training & employment agencies ', 'Specialty retailers ', 'Consumer electronics ', 'Defense ', 'Health care providers ', '-', '-', 'Commercial vehicles & parts ', 'Commercial vehicles & parts ', 'Paints and coatings ', 'Chemicals: diversified ', 'Automobiles ', '-', '-', 'Banks ', 'Automobiles ', '-', '-', 'Broadcasting & entertainment ', 'Food products ', 'Paper ', 'Banks ', 'Banks ', 'Banks ', 'Aerospace, space industry ', 'Commercial vehicles & parts ', 'Engineering and contracting services ', 'Aluminium ', 'Pharmaceuticals & biotechnology ', 'Aerospace & defense ', 'Aerospace & defense ', 'Industrial engineering ', 'Electrical components ', 'Oil refining & marketing ', 'Telecommunications service providers ', 'Alternative energy ', 'Telecommunications services ', 'Pharmaceuticals & biotechnology ', 'Consumer electronics ', 'Auto services ', 'Textile products ', 'Food products ', 'Glass ', 'Consumer electronics ', 'Aerospace & defense ', 'Real estate ', 'Food products ', 'Restaurants & bars ', 'Banks ', 'Specialty retailers ', 'Tires ', 'Consumer electronics ', 'Banks ', 'Electronic & electrical equipment ', 'Building materials: other ', 'Alternative electricity ', 'Diversified industrials ', 'Oil refining & marketing ', 'Pharmaceuticals ', 'Banks ', 'Business support services ', 'Coal ', 'Specialty chemicals ', 'Shipbuilding ', 'Investment services ', 'Railroads ', 'Fertilizers ', 'Semiconductors ', 'Specialty retailers ', 'Banks ', 'Software & IT services ', 'Ayurvedic producers ', 'Conventional electricity ', 'Software ', 'Airlines ', 'Railroads ', 'General mining ', 'Banks ', 'Broadcasting & entertainment ', 'Electronic & electrical equipment ', 'Real estate holding & development ', 'Diversified retailers ', 'Pharmaceuticals ', 'Industrial engineering ', 'Travel & tourism ', 'Financial services ', 'Commercial vehicles & parts ', 'Food products ', 'Electronic & electrical equipment ', 'Entry-level employment ', '-', '-', 'Pharmaceuticals ', 'Engineering and contracting services ', 'General mining ', 'Industrial engineering ', '-', '-', '-', 'Consumer electronics ', 'Durable household products ', 'Electrical components ', 'Life insurance ', 'Banks ', 'Business support services ', 'Consumer digital services ', '-', '-', 'Automobiles ', 'Health care providers ', 'Diversified retailers ', 'Gas distribution ', 'Specialty chemicals ', 'Shipbuilding ', 'Investment services ', 'Clothing & accessories ', 'Pharmaceuticals ', 'Defense ', 'Real estate holding & development ', 'Airlines ', 'Shipbuilding ', '-', '-', 'Marine transportation ', 'Industrial engineering ', 'Building materials: other ', 'Specialty chemicals ', 'General mining ', 'Fertilizers ', 'Oil refining & marketing ', '-', '-', 'Food products ', 'Software ', 'Food products ', 'Electrical components ', 'Durable household products ', 'Business support services ', 'Banks ', 'Real estate holding & development ', 'Recreational vehicles ', 'Financial services ', 'Automobiles ', 'Telecommunications equipment ', 'Ayurvedic producers ', 'Aluminium ', '-', '-', 'Health care providers ', 'Aerospace & defense ', 'Real estate holding & development ', 'Copper ', 'Automobiles ', 'Oil refining & marketing ', 'Shipbuilding ', 'Publishing ', 'Food & personal products ', 'Nonferrous metals ', 'Pharmaceuticals & medical equipment ', 'Diversified industrials ', 'Financial services ', 'Consumer electronics ', 'B

[illegible]

```
[18]: Company_Established = []
for i in range(4, len(new_list), 4):
    Company_Established.append(new_list[i])
print(Company_Established)
```

1988	1986	1985	1922	1936	1961	1981	1995	1972	1988	1918	1997	1857	1977	1921	1959	1982
2013	1932	2005	1971	1973	1993	1984	1983	1893	1946	1996	1983	1972	1986	1979	1995	2021
2007	1933	1948	2002	1942	1947	1978	1919	1993	1945	1945	1994	1975	1945	1980	1986	1935
2015	1964	1952	1965	1996	1978	1954	1961	1964	1976	2000	2002	1995	1978	1943	2019	1879
1985	1962	1963	1998	1986	1892	1996	2008	2008	1958	2009	1911	1993	1986	1897	1878	1963
1935	1984	1975	1975	1989	1972	1988	1988	1968	2005	1992	1920	1991	1884	1948	1987	1997
2006	1941	1938	2003	1993	1946	2002	1984	1973	2008	1995	1948	1788	1967	2005	1974	1883
1965	1963	1960	1960	1926	1962	1985	1947	2001	1931	2001	2007	1767	1958	2001	1987	1984
1980	1884	1987	1980	1977	2021	1978	2005	1957	1897	1948	1859	1998	1973	1963	1952	1979
2005[4]	1937	1813	1978	1958	1921	1976	1994	1996	1956	1991	1984	1987	1939	1958	1914	?
1946	1926	1967	1942	1974	1941	1924	1933	1966	1966	1953	1977	2001	1994	1964	2015	1998
1946	2021	2000	1995	1907	1902	1959	1937	1976	1853	2012	1949	2006	1994	2007	1981	1997
1987	2007	1963	1963	1955	2000	1996	1976	1910	2001	2012	1986	1947	1968	1962	1979	1992
2008	2007	2019	1970	1952	1979	1994	1982	2017	1982	1995	1956	?	2000	1924	1916	1978
1964	1981	1857	1888	1931	1980	1965	1990	2001[5]	1876	1962	1926	1986	1938	2009	1954	1956
1975	2015	1992	2001	1945	1945	2000	1974	1988	1991	1981	1982	1985	2001	2001	2015	1934
1973	1983	1947	1989	2000	1992	1999	1973	1997	1985	1963	2012	1962	1983	1974	2000	1946
1986	1964	1937	2021	1900	1939	2009	1981	1974	1958	2006	2017	1946	1960	1980	1995	1993
1975	1981	1981	1990	1956	1975	1987	2012	1956	1959	2017	2018	2006	2000	1981	2000	1990
1775	2016	2005	1984	1929	2006	1985	1976[7]	1990	1998	1959	1998	1988	1986	1989	1999	1
983	1998[8]	1908	1894	1995	1997	1990	1974	1988	1956	1992	1961	2015	1978	1982	1925	1969
1996	1986	2002	2007	2005	1966	2006	1988	1966	2002	2001	1975	1997	2007	2006	2004	1955
1979	2011	1978	2005	1973	1981	2004	1989	2018	1966	1865	1961	1991	1979	2002	1998	1974
1920	1983	2018	2010	1995	1966	1929	2004	2017	1886	1954	1975	2000	2003	1992	1981	1973
1995	2014	1972	1983	1979	1921	1999	?	2007	2004	1939	1986	1968	1964	1968	1998	1945
2004	1910	1907	1987	1989	1986	1976	1987	1939	1887							

Using Website Scrapping and Pandas library

```
[22]: import pandas as pd

df=pd.DataFrame({"Company":Company_Names,"Industry":Industry_type,"Sector":Sector_type,"Main_Office":Head_Office,"start_up":Company_Established,
})
df
```

```
[22]:
```

	Company	Industry	Sector	Main_Office	start_up
0	63 Moons Technologies	Technology	Software	Mumbai	1988
1	Aban Offshore	Energy	Oil & gas offshore drilling & other services	Chennai	1986
2	ABG Shipyard	Industrials	Shipbuilding	Ahmedabad	1985
3	ABP Group	Consumer services	Broadcasting & entertainment	Kolkata	1922
4	ACC	Industrials	Cement	Mumbai	1936
--	--	--	--	--	--
487	Zensar Technologies	Technology	Software & IT services	Pune	1991
488	Zeta	Technology	Consumer digital services	Mumbai	2015
489	Zoho Corporation	Technology	Software	Chennai	1996
490	Zomato	Technology	Consumer digital services	Gurugram	2008
491	Zyklus Lifesciences	Health care	Pharmaceuticals	Ahmedabad	1952

492 rows x 5 columns

Exporting all the data into a CSV File

```
[24]: df.to_csv("Top Companies Web Scrapping python.csv")

[25]: pwd()

[25]: 'C:\\Users\\DELL\\Downloads'

[26]: read=pd.read_csv("Top Companies Web Scrapping python.csv")
read
```

	Unnamed: 0	Company	Industry	Sector	Main_Office	start_up
0	0	63 Moons Technologies	Technology	Software	Mumbai	1988
1	1	Aban Offshore	Energy	Oil & gas offshore drilling & other services	Chennai	1986
2	2	ABG Shipyard	Industrials	Shipbuilding	Ahmedabad	1985
3	3	ABP Group	Consumer services	Broadcasting & entertainment	Kolkata	1922
4	4	ACC	Industrials	Cement	Mumbai	1936
...
487	487	Zensar Technologies	Technology	Software & IT services	Pune	1991
488	488	Zeta	Technology	Consumer digital services	Mumbai	2015
489	489	Zoho Corporation	Technology	Software	Chennai	1996
490	490	Zomato	Technology	Consumer digital services	Gurugram	2008
491	491	Zydus Lifesciences	Health care	Pharmaceuticals	Ahmedabad	1952

492 rows × 6 columns

Conclusion:

The web scraping project focused on identifying and analyzing the top companies in India has been a valuable learning experience in leveraging Python for data collection and processing. By utilizing the BeautifulSoup library, we successfully extracted detailed information about companies, including their rankings and industry sectors. This project highlights the power of web scraping for gathering real-time, publicly available data from online sources, making it a crucial skill in data science and analytics.

The data extracted was processed, cleaned, and analyzed to identify patterns and trends among top-performing companies. The generation of a professional PDF report added structure and readability to the findings, showcasing the data through well-organized tables and visualizations. This not only demonstrates technical skills in Python but also effective communication of data-driven insights, which is essential for decision-making.

Overall, this project emphasizes the importance of combining technical expertise with analytical thinking to transform raw data into meaningful insights. It also underscores the growing relevance of web scraping in understanding business landscapes and industry trends, making it a practical and impactful addition to a data-driven portfolio.

Thank You

Om Suryawanshi