```
In [1]:   !pip install bs4

          Requirement already satisfied: bs4 in c:\users\asharm\anaconda3\lib\site-packages (0.
          0.1)
          Requirement already satisfied: beautifulsoup4 in c:\users\asharm\anaconda3\lib\site-p
          ackages (from bs4) (4.11.1)
          Requirement already satisfied: soupsieve>1.2 in c:\users\asharm\anaconda3\lib\site-pa
          ckages (from beautifulsoup4->bs4) (2.3.1)

In [2]:   !pip install requests

          Requirement already satisfied: requests in c:\users\asharm\anaconda3\lib\site-package
          s (2.27.1)
          Requirement already satisfied: charset-normalizer~=2.0.0 in c:\users\asharm\anaconda3
          \lib\site-packages (from requests) (2.0.4)
          Requirement already satisfied: certifi>=2017.4.17 in c:\users\asharm\anaconda3\lib\si
          te-packages (from requests) (2021.10.8)
          Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\asharm\anaconda3\lib
          \site-packages (from requests) (1.26.9)
          Requirement already satisfied: idna<4,>=2.5 in c:\users\asharm\anaconda3\lib\site-pac
          kages (from requests) (3.3)

In [3]:   from bs4 import BeautifulSoup

In [4]:   url = "https://www.journals.elsevier.com/artificial-intelligence/most-downloaded-artic

In [5]:   import requests
          r = requests.get(url)
          r

Out[5]:   <Response [200]>

In [6]:   soup = BeautifulSoup(r.content)

In [7]:   Title = []

In [8]:   for i in soup.find_all("h2", class_="sc-1qrq3sd-1 MKjKb sc-1nmom32-0 sc-1nmom32-1 hqhL
              Title.append(i.text)

In [9]:   # title are scrapped
          Title
```

```
Out[9]: ['Reward is enough',
         'Making sense of raw input',
         'Law and logic: A review from an argumentation perspective',
         'Creativity and artificial intelligence',
         'Artificial cognition for social human–robot interaction: An implementation',
         'Explanation in artificial intelligence: Insights from the social sciences',
         'Making sense of sensory input',
         'Conflict-based search for optimal multi-agent pathfinding',
         'Between MDPs and semi-MDPs: A framework for temporal abstraction in reinforcement l
         earning',
         'The Hanabi challenge: A new frontier for AI research',
         'Evaluating XAI: A comparison of rule-based and example-based explanations',
         'Argumentation in artificial intelligence',
         'Algorithms for computing strategies in two-player simultaneous move games',
         'Multiple object tracking: A literature review',
         'Selection of relevant features and examples in machine learning',
         'A survey of inverse reinforcement learning: Challenges, methods and progress',
         'Explaining individual predictions when features are dependent: More accurate approx
         imations to Shapley values',
         'A review of possible effects of cognitive biases on interpretation of rule-based ma
         chine learning models',
         'Integrating social power into the decision-making of cognitive agents',
         '"That's (not) the output I expected!" On the role of end user expectations in creat
         ing explanations of AI systems",
         'Explaining black-box classifiers using post-hoc explanations-by-example: The effect
         of explanations and error-rates in XAI user studies',
         'Algorithm runtime prediction: Methods & evaluation',
         'Wrappers for feature subset selection',
         'Commonsense visual sensemaking for autonomous driving – On generalised neurosymboli
         c online abduction integrating vision and semantics',
         'Quantum computation, quantum theory and AI']
```

In [11]:
```python
Authors = []
```

In [13]:
```python
for i in soup.find_all("span", class_="sc-1w3fpd7-0 pgLAT"):
    Authors.append(i.text)
```

In [14]:
```python
Authors
```

```
Out[14]: ['Silver, David, Singh, Satinder, Precup, Doina, Sutton, Richard S. ',
         'Evans, Richard, Bošnjak, Matko and 5 more',
         'Prakken, Henry, Sartor, Giovanni ',
         'Boden, Margaret A. ',
         'Lemaignan, Séverin, Warnier, Mathieu and 3 more',
         'Miller, Tim ',
         'Evans, Richard, Hernández-Orallo, José and 3 more',
         'Sharon, Guni, Stern, Roni, Felner, Ariel, Sturtevant, Nathan R. ',
         'Sutton, Richard S., Precup, Doina, Singh, Satinder ',
         'Bard, Nolan, Foerster, Jakob N. and 13 more',
         'van der Waa, Jasper, Nieuwburg, Elisabeth, Cremers, Anita, Neerincx, Mark ',
         'Bench-Capon, T.J.M., Dunne, Paul E. ',
         'Bošanský, Branislav, Lisý, Viliam and 3 more',
         'Luo, Wenhan, Xing, Junliang and 4 more',
         'Blum, Avrim L., Langley, Pat ',
         'Arora, Saurabh, Doshi, Prashant ',
         'Aas, Kjersti, Jullum, Martin, Løland, Anders ',
         'Kliegr, Tomáš, Bahník, Štěpán, Fürnkranz, Johannes ',
         'Pereira, Gonçalo, Prada, Rui, Santos, Pedro A. ',
         'Riveiro, Maria, Thill, Serge ',
         'Kenny, Eoin M., Ford, Courtney, Quinn, Molly, Keane, Mark T. ',
         'Hutter, Frank, Xu, Lin, Hoos, Holger H., Leyton-Brown, Kevin ',
         'Kohavi, Ron, John, George H. ',
         'Suchan, Jakob, Bhatt, Mehul, Varadarajan, Srikrishna ',
         'Ying, Mingsheng ']
```

In [15]:
```python
Published = []
```

In [16]:
```python
for i in soup.find_all("span", class_="sc-1thf9ly-2 bKddwo"):
    Published.append(i.text)
```

In [17]:
```python
Published
```

```
Out[17]: ['October 2021',
         'October 2021',
         'October 2015',
         'August 1998',
         'June 2017',
         'February 2019',
         'April 2021',
         'February 2015',
         'August 1999',
         'March 2020',
         'February 2021',
         'October 2007',
         'August 2016',
         'April 2021',
         'December 1997',
         'August 2021',
         'September 2021',
         'June 2021',
         'December 2016',
         'September 2021',
         'May 2021',
         'January 2014',
         'December 1997',
         'October 2021',
         'February 2010']
```

```
In [19]: Paper_URL = []
```

```
In [20]: for i in soup.find_all("a", class_="sc-5smygv-0 nrDZj"):
             Paper_URL.append(i.get("href"))
```

```
In [21]: Paper_URL
```

Out[21]: ['https://www.sciencedirect.com/science/article/pii/S0004370221000862',
 'https://www.sciencedirect.com/science/article/pii/S0004370221000722',
 'https://www.sciencedirect.com/science/article/pii/S0004370215000910',
 'https://www.sciencedirect.com/science/article/pii/S0004370298000551',
 'https://www.sciencedirect.com/science/article/pii/S0004370216300790',
 'https://www.sciencedirect.com/science/article/pii/S0004370218305988',
 'https://www.sciencedirect.com/science/article/pii/S0004370220301855',
 'https://www.sciencedirect.com/science/article/pii/S0004370214001386',
 'https://www.sciencedirect.com/science/article/pii/S0004370299000521',
 'https://www.sciencedirect.com/science/article/pii/S0004370219300116',
 'https://www.sciencedirect.com/science/article/pii/S0004370220301533',
 'https://www.sciencedirect.com/science/article/pii/S0004370207000793',
 'https://www.sciencedirect.com/science/article/pii/S0004370216300285',
 'https://www.sciencedirect.com/science/article/pii/S0004370220301958',
 'https://www.sciencedirect.com/science/article/pii/S0004370297000635',
 'https://www.sciencedirect.com/science/article/pii/S0004370221000515',
 'https://www.sciencedirect.com/science/article/pii/S0004370221000539',
 'https://www.sciencedirect.com/science/article/pii/S0004370221000096',
 'https://www.sciencedirect.com/science/article/pii/S0004370216300868',
 'https://www.sciencedirect.com/science/article/pii/S0004370221000588',
 'https://www.sciencedirect.com/science/article/pii/S0004370221000102',
 'https://www.sciencedirect.com/science/article/pii/S0004370213001082',
 'https://www.sciencedirect.com/science/article/pii/S000437029700043X',
 'https://www.sciencedirect.com/science/article/pii/S0004370221000734',
 'https://www.sciencedirect.com/science/article/pii/S0004370209001398']

```
In [ ]: # For Paper Title :
        Title
        # For Authors:
        Authors
        # For published Date
        Published
        # for Url
        Paper_URL
```