COLLECTING MACHINE LEARNING QUIZ DATA USING WEB SCRAPING

questios number : 88

question example: What does "AI bias" mean when used in relation to artificial intelligence?

example answers :A.The tendency of AI systems to make decisions without data,B.The unintentional discrimination in AI systems due to biased training data,C.The ability of AI systems to make decisions without human intervention,D.The ethical considerations when designing AI algorithms.

Link: [https://mcqprime.com/artificial-intelligence-mcq/]

```
In [2]: import pandas as pd
import requests
from bs4 import BeautifulSoup

In [3]: # Setup Lãy data
quiz_items=0
def scap (url):
    global quiz_items
    headers = {'User-Agent': 'Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:80.0) Geck
    response = requests.get(url, headers=headers)
    response.encoding = 'utf-8'
    soup = BeautifulSoup(response.text, 'html.parser')
    quiz_items = soup.find_all('ol', class_='wp-block-list')
    return quiz_items

print(scap('https://mcqprime.com/artificial-intelligence-mcq/')) # test
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[
<strong>What does "AI bias" mean when used in relation to artificial intelligence
e?</strong><br/>or/>a. The tendency of AI systems to make decisions without data<br/>b.
The unintentional discrimination in AI systems due to biased training data<br/>br/>c. Th
e ability of AI systems to make decisions without human intervention<br/>or/>d. The ethi
cal considerations when designing AI algorithms
, 
<strong>Which AI technique is often used for clustering data into groups with si
milar characteristics?</strong><br/>oh/>a. Regression<br/>oh/>b. Reinforcement Learning<br/>obr/>
c. Supervised Learning<br/>d. Unsupervised Learning
, 
<strong>What function does a Recurrent Neural Network (RNN) perform in AI?
ng><br/>or/>a. To classify images<br/>b. To analyze text sentiment<br/>c. To process seq
uences of data with memory<br/>d. To play board games
, 
<strong>The main objective of artificial intelligence?</strong><br/><br/>>a. To replic
ate human intelligence exactly<br/>br/>b. To develop computer programs that can think fo
r themselves<br/>c. To mimic human behavior without understanding<br/>dbr/>d. To solve co
mplex problems using algorithms
, 
<strong>What does "NLU" mean when referring to natural language?</strong><br/>><br/>a.
Natural Language Understanding<br/>br/>b. Neural Language Unit<br/>br/>c. New Linguistic Und
erstanding<br/>d. Neutral Language Understanding
, 
<strong>What is the name of the kind of AI system that can complete particular t
asks at or better than human levels of proficiency?</strong><br/>br/>a. Strong AI<br/>b.
Weak AI<br/>c. Narrow AI<br/>d. General AI
, 
<strong>What is the purpose of an AI chatbot?</strong><br/>br/>a. To play video game
s<br/>s<br/>b. To automate routine customer service tasks<br/>c. To generate random text<br/>b
r/>d. To translate languages
, 
<strong>Which AI application involves teaching a computer to perform a task by e
xample, rather than through explicit programming?</strong><br/>a. Supervised Learnin
g<br/>d. Unsupervised Learning<br/>cor/>c. Reinforcement Learning<br/>d. Machine Vision</
li>
, 
<strong>What does "IoT" mean in terms of artificial intelligence?</strong><br/>
a. Internet of Things<br/>br/>b. Intelligence of Technology<br/>c. Input of Text<br/>d.
Internet of Training
, 
<strong>Which of the following is not a common application of natural language p
rocessing (NLP)?</strong><br/>or/>a. Sentiment analysis<br/>b. Machine translation<br/><br/>>
, 
<strong>Why is the Turing Test used in AI?</strong><br/>br/>a. To evaluate the compu
tational power of a computer<br/>br/>b. To measure a machine's ability to exhibit human-
like intelligence<br/>cor/>c. To assess the speed of algorithm execution<br/>dor/>d. To determ
ine if a computer can defeat a human in chess
, 
<strong>Which programming language was designed for artificial intelligence and
symbolic reasoning?</strong><br/>br/>a. C++<br/>b. Python<br/>br/>c. Lisp<br/>br/>d. Ruby
, 
<strong>What does machine learning and AI mean when they refer to "data augmenta
tion"?</strong><br/>br/>a. Creating new data by generating random values<br/>b. Increasi
ng the size of the training dataset through transformations<br/>cbr/>c. Reducing the size
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of the training dataset for efficiency<br/>dr/>d. Scaling the data to fit a specific ran
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What is the name of the form of machine learning in which the algorithm learns to predict outcomes using labeled data?
br/>a. Supervised Learning

b r/>b. Unsupervised Learning
c. Reinforcement Learning
d. Semi-supervised Lea rning

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Which AI strategy makes use of neural networks with numerous layers and aims to mimic how people think and learn?
obr/>a. Symbolic AI
br/>b. Evoluti onary Computing
c. Deep Learning
d. Genetic Algorithms

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What does "AI ethics" mean when used in artificial intelligence?</strong</pre> >
a. The study of AI algorithms
br/>b. The design of AI systems to be ethically neutral
considerations and guidelines for AI development and use< br/>d. The use of AI for ethical decision-making

,

Which AI method is motivated by the laws of natural selection and the su rvival of the fittest?
of. Reinforcement Learning
br/>b. Genetic Algorit hms
c. Deep Learning
d. Fuzzy Logic

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What function does an AI-based recommendation system provide?

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/strong><br/ r/>a. To classify images
b. To optimize supply chain management
cbr/>c. To sugges t personalized content or products to users
d. To control industrial robots ,

What do you know by "named entity recognition" in natural language proce ssing?
>a. Identifying and classifying entities in text, such as names o f people, places, and organizations
b. Analyzing sentiment in text
br/>c. Transl ating text from one language to another
br/>d. Summarizing lengthy documents ,

What is the name of machine learning where the algorithm looks for patte rns or groupings in data even when the labels are not explicit?
br/>a. Supe rvised Learning
obr/>b. Unsupervised Learning
obr/>c. Reinforcement Learning
obr/>d. Se mi-supervised Learning

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Which of the following cannot be considered a subset of AI?

 >a. Machine Learning
b. Natural Language Processing (NLP)
c. Expert Systems< br/>d. Virtual Reality (VR)

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What do you call a computer system that is capable of activities like sp eech recognition, visual perception, and decision-making, which generally need human intelligence?
br/>a. Expert System
b. Neural Network
c. Turing Mach ine
d. Supercomputer

,

Which AI strategy maximizes a payoff in an uncertain environment when ma king decisions?
br/>a. Genetic Algorithms
b. Reinforcement Learning

br/ >c. Expert Systems
d. Fuzzy Logic

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What is the most popular programming language for developing AI and mach ine learning applications?
or/>a. C++
b. Java
or/>c. Python
d. Ruby

,

Which of the following is not a Python module or framework for natural 1 anguage processing?
dr/>a. NLTK (Natural Language Toolkit)
br/>b. TensorFlo w
c. SpaCy
d. Gensim

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<strong>What is the main advantage of using convolutional neural networks in ima
ge recognition work?</strong><br/>or/>a. They require less training data<br/>br/>b. They can
process text data effectively<br/>c. They capture spatial relationships in images<br/>cb
r/>d. They are more interpretable
, 
<strong>Which AI application promotes vehicle delivery routes with the use of al
gorithms?</strong><br/>br/>a. Natural Language Processing (NLP)<br/>br/>b. Robotics<br/>br/>c. G
enetic Algorithms<br/>d. Machine Vision
, 
<strong>What does the term "overfitting" mean in AI?</strong><br/>>cbr/>a. The model p
erforms well on the training data but poorly on new data<br/>>b. The model is too sim
ple to capture complex patterns in the data<br/>c. The model is biased towards a spe
cific class of data<br/>dr/>d. The model is unable to learn from data
, 
<strong>What is the name of the AI system which can comprehend, interpret, and p
roduce human language?</strong><br/>br/>a. Natural Language Processing (NLP)<br/>b. Mach
ine Vision<br/>or/>c. Reinforcement Learning<br/>obr/>d. Genetic Algorithms
, 
<strong>Which of the following is an example of a task requiring supervised lear
ning?</strong><br/>br/>a. Image classification<br/>bb. Clustering customer data<br/>br/>c. Tr
aining a chatbot to have a conversation<br/>or/>d. Reinforcement learning in a game
, 
<strong>What is the name of a particular type of AI system that can carry out a
variety of tasks and displays intelligence similar to that of a human?</strong><br/>br/>
a. Strong AI<br/>b. Weak AI<br/>c. Narrow AI<br/>d. General AI
, 
<strong>What does "CNN" stand for in the field of artificial intelligence?</stro</pre>
ng><br/>br/>a. Convolutional Neural Network<br/>b. Common Neural Network<br/>c. Continuo
us Neural Network<br/>d. Complex Neural Network
, 
<strong>What is the name of an AI system's ability to become more effective when
additional data is made available to it?</strong><br/>>c/strong><br/>>c/sa. Static Learning<br/>b. Tran
sfer Learning<br/>c. Dynamic Learning<br/>d. Incremental Learning
, 
<strong>What application of artificial intelligence makes use of algorithms to e
xamine and analyse visual data, frequently for tasks like object detection or facial
recognition?</strong><br/>or/>a. Natural Language Processing (NLP)<br/>br/>b. Robotics<br/>obr/>
c. Machine Vision<br/>d. Genetic Algorithms
, 
<strong>What is the main goal of reinforcement learning?</strong><br/>obr/>a. To clas
sify data into categories<br/>br/>b. To optimize a system for maximum efficiency<br/>c.
To make predictions based on historical data<br/><br/>d. To learn optimal actions through
trial and error
, 
<strong>Which AI method uses a set of rules to describe knowledge and then uses
those rules to solve problems?</strong><br/>br/>a. Expert Systems<br/>br/>b. Neural Networks
<br/>c. Genetic Algorithms<br/>d. Natural Language Processing (NLP)
, 
<strong>What is the main drawback of applying deep learning models, like Convolu
tional Neural Networks (CNNs)?<br/>obr/>a. They require a large amount of labeled data fo
r training</strong><br/>br/>b. They are not suitable for image recognition tasks<br/>c.
They cannot handle sequential data<br/>br/>d. They are computationally inefficient
, 
<strong>What type of AI method is frequently used to simulate natural selection
while maximizing solutions to challenging problems?</strong><br/>br/>a. Supervised Learn
ing<br/>c. Genetic Algorithms<br/>d. Unsupervised Lear
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What is the goal of a collaborative filtering-based AI recommendation sy stem?
br/>a. To generate content for a website
br/>b. To provide personaliz ed recommendations based on user behavior and preferences
br/>c. To classify images br/>d. To optimize supply chain management

,

What is the process of training a model to carry out a task by giving it
examples of appropriate behavior in AI?
br/>a. Supervised Learning
br/>b. U
nsupervised Learning
c. Reinforcement Learning
d. Semi-supervised Learning

,

Which AI technology employs algorithms to produce text or speech that so
unds human?
br/>a. Machine Vision
br/>b. Natural Language Processing (NLP)
br/>c. Speech Recognition

d. Genetic Algorithms

,

What is the phrase used to describe a machine learning model's capacity
to generalize from the training data to make precise predictions on additional data?

or/>a. Overfitting
b. Bias
c. Variance
d. Generalization</or></or>, </or>

What is the name of the AI technique where several models or experts are
combined to create predictions or decisions?
br/>a. Reinforcement Learning
br/>b. Transfer Learning
br/>c. Ensemble Learning
br/>d. Deep Learning

,

Which of the following activation functions are frequently used in artif
icial neural networks?
a. Sigmoid
br/>b. Regression
c. Fuzzy Logic
br/>d. Principal Component Analysis (PCA)

,

What is the main benefit of applying reinforcement learning to AI for ac
tivities like playing games?
br/>a. It requires a large amount of labeled d
ata
br/>b. It can handle complex sequences of actions
cor/>c. It is not suitable for
real-time tasks
d. It relies on pre-defined rules

,

What is the name of the method used in AI that enables a model to still
make predictions even when portion of the input data is missing?
br/>a. Reg
ularization
b. Imputation
c. Feature Engineering
d. Dimensionality Reduc
tion

,

Which of the following approaches is frequently used to evaluate an AI c
lassification model's effectiveness?
b. R-squared (R^2)
c. Confusion Matrix
d. Root Mean Square Error (RMSE),

What does "backpropagation" mean in AI?
br/>a. The process of t raining a neural network by adjusting its weights based on errors
br/>b. The techniq ue used for data augmentation
c. The process of encoding categorical data
d. The method for calculating feature importance

,

What is the name of the kind of AI model, such as a self-driving car, th
at can complete tasks without constant human intervention?
br/>a. Strong AI

br/>b. Weak AI
c. Narrow AI
d. General AI

,

What does "cross-validation" mean in AI?
br/>a. The process of
validating the results of a neural network
br. The process of training a model on
multiple datasets
c. The process of splitting data into training and testing set
s
br/>d. The technique for evaluating model performance using multiple subsets of da
ta

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, 
<strong>What is the process by which text data is transformed into a numerical r
epresentation for machine learning?</strong><br/>obr/>a. Text Analysis<br/>br/>b. Text Mining
<br/>c. Text Encoding<br/>d. Text Embedding
, 
<strong>Which of the following is a deep learning framework that is not frequent
ly used?</strong><br/>d. TensorFlow<br/>b. PyTorch<br/>c. Keras<br/>d. Scikit-Learn
, 
<strong>What is the primary application of a generative adversarial network (GA
N) in AI?</strong><br/>br/>a. Image classification<br/>bb. Image generation<br/>c. Natura
l language processing<br/>d. Speech recognition
, 
<strong>What is the name of the process that turns raw data into a format that m
achine learning models can use?</strong><br/>>cbr/>a. Data Labeling<br/>br/>b. Data Engineerin
g<br/>c. Data Imputation<br/>d. Data Visualization
, 
<strong>Which AI algorithms are used to understand and interpret human movements
and gestures?</strong><br/>br/>a. Speech Recognition<br/>bb. Machine Vision<br/>cbr/>c. Natura
1 Language Processing (NLP) < br/> d. Gesture Recognition 
, 
<strong>What is the primary goal of reinforcement learning in AI?</strong><br/><br/>
a. To optimize the accuracy of predictions<br/>br/>b. To find patterns and relationships
in data<br/>cbr/>c. To learn optimal actions based on rewards and punishments<br/>cbr/>d. To c
lassify data into predefined categories
, 
<strong>What is the name of the AI technique where a model is trained on one tas
k, then used for another but similar task?</strong><br/>br/>a. Reinforcement Learning<br/>b
r/>b. Transfer Learning<br/>c. Ensemble Learning<br/>d. Deep Learning
, 
<strong>Which of the following is an example of a generative model?</strong><br/><br/></strong>
>a. Support Vector Machine (SVM)<br/>>b. Recurrent Neural Network (RNN)<br/><br/>>c. K-Mean
s Clustering<br/>d. Principal Component Analysis (PCa.
, 
<strong>What is the main goal of natural language processing?</strong><br/>br/>a. To
analyze and process human emotions<br/>
<br/>br/>b. To generate random text<br/>
c. To understa
nd, interpret, and generate human language<br/>d. To recognize and understand visual
information
, 
<strong>Which AI approach uses rules and knowledge representation to arrive at 1
ogically sound decisions?</strong><br/>or/>a. Supervised Learning<br/>br/>b. Expert Systems<
br/>c. Deep Learning<br/>d. Reinforcement Learning
, 
<strong>What is the name of the capability of an AI system to observe and compre
hend the spatial structure of the environment?</strong><br/>br/>a. Natural Language Proc
essing (NLP)<br/>b. Computer Vision<br/>c. Speech Recognition<br/>d. Sentiment Analy
sis
, 
<strong>What does "bias-variance trade-off" mean in the context of AI?</strong><</pre>
br/>a. The need for more data to reduce model bias<br/>br/>b. The balance between model
complexity and generalization<br/>complexity and generalization<br/>complexity and unsupervised
learning<br/>of trade-off between accuracy and precision
, 
<strong>Which of the following approaches is utilized in AI to reduce dimensiona
lity?</strong><br/>ba. K-Means Clustering<br/>br/>b. Principal Component Analysis (PCa.<br/>cb
r/>c. Recurrent Neural Networks (RNNs)<br/><br/>d. Support Vector Machines (SVMs)
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, 
<strong>What is the name of the metric used in AI to evaluate a classification m
odel's performance?</strong><br/>br/>a. Root Mean Square Error (RMSE)<br/>b. F1 Score<br/>b
r/>c. Gradient Descent<br/>d. Perceptron Loss
, 
<strong>What is the name for an AI model that has been trained to accomplish a s
ingle task and cannot simply be applied to other tasks?</strong><br/>other/>a. Strong AI<br/>b
r/>b. Weak AI<br/>c. Narrow AI<br/>d. General AI
, 
<strong>What kind of AI method uses labeled data to divide input into predetermi
ned categories?</strong><br/>br/>a. Reinforcement Learning<br/>b. Unsupervised Learning
br/>c. Supervised Learning<br/>of. Semi-supervised Learning
, 
<strong>What is the procedure for reducing the dimensionality of data while main
taining its essential characteristics?</strong><br/>br/>a. Principal Component Analysis
(PCA)<br/>b. Regression<br/>c. K-Means Clustering<br/>d. Gradient Boosting
, 
<strong>What does "chatbot" mean in terms of AI?</strong><br/>of AI?
br/>b. Chatter Robot<br/>c. Computer Help Assistance Technology for Browsing Online
Text<br/>d. Communication Helper Automated Technology Based on Text
, 
<strong>Which AI application uses algorithms to decode and interpret human emoti
ons from speech or text?</strong><br/>on. Sentiment Analysis<br/>br/>b. Image Recognition
<br/><br/>c. Autonomous Vehicles<br/>d. Fraud Detection
, 
<strong>RNN stand for <em>__</em>.</strong><br/>br/>a. Recursive Neural Network<br/>
b. Randomized Neural Network<br/>c. Recurrent Neural Network<br/>d. Robotic Neural N
etwork
, 
<strong>What is the main advantage of using unsupervised learning in AI?</strong</pre>
><br/>br/>a. It can make predictions based on labeled data<br/>b. It can perform image r
ecognition tasks<br/>c. It can discover hidden patterns and relationships in data<br/>b
r/>d. It requires less computational power
, 
<strong>Which AI method is frequently applied to maximizing judgments in uncerta
in or inadequate information situations?</strong><br/>br/>a. Reinforcement Learning<br/>br/>
b. Supervised Learning<br/>c. Genetic Algorithms<br/>d. Fuzzy Logic
, 
<strong>How you can describe an AI system's capacity to identify and comprehend
human speech?</strong><br/>br/>a. Natural Language Processing (NLP)<br/>br/>b. Speech Recogn
ition<br/>c. Audio Analysis<br/>d. Language Understanding System
, 
<strong>Which of the following open-source machine learning libraries is well-kn
own for offering tools for modeling and data analysis?</strong><br/>br/>a. TensorFlow<br/>b
r/>b. Keras<br/>c. PyTorch<br/>d. Pandas
, 
<strong>What is the process of optimizing a deep learning model that has already
been trained for a particular task using a smaller dataset?</strong><br/>br/>a. Reinforc
ement Learning<br/>b. Transfer Learning<br/>cbr/>c. Unsupervised Learning<br/>dbr/>d. Semi-sup
ervised Learning
, 
<strong>Which AI method is employed to solve optimization problems and is modele
d after the behavior of ants, bees, and other social insects?</strong><br/>br/>a. Reinfo
rcement Learning<br/>b. Swarm Intelligence<br/>cbr/>c. Genetic Algorithms<br/>d. Expert S
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LAB1A
<strong>What does "feature engineering" mean in the context of AI?</strong><br/><br/>
a. The process of designing user interfaces for AI applications<br/>br/>b. The process o
f selecting and transforming input data to improve model performance <br/>br/>c. The proc
ess of encoding rules in expert systems<br/>br/>d. The process of fine-tuning hyperparam
eters in machine learning models
, 
<strong>Which method is frequently used to decrease overfitting in machine learn
ing models?</strong><br/>br/>a. Increasing the model complexity<br/>br/>b. Decreasing the am
ount of training data<br/><br/>c. Regularization techniques like L1 and L2<br/>br/>d. Removin
g all features except one
, 
<strong>What is the name of the capability of an AI system to comprehend and ana
lyze visual data from the real world?<br/><br/>a. Natural Language Processing (NLP)</stro
ng><br/>b. Machine Vision<br/>c. Reinforcement Learning<br/>d. Genetic Algorithms</l
i>
, 
<strong>What is the name for a mathematical model in AI that use a system of equ
ations to imitate the behavior of a complicated system?</strong><br/>br/>a. Artificial N
eural Network (ANN)<br/>b. Genetic Algorithm (Ga.<br/>cbr/>c. Agent-Based Model (ABM)<br/>cbr/
>d. Turing Machine
, 
<strong>What is the name for a certain class of AI model that has been taught to
forecast a continuous numerical value?</strong><br/>br/>a. Classification Model<br/>br/>b. R
egression Model<br/>c. Clustering Model<br/>d. Ensemble Model
, 
<strong>What is the phrase used in AI to describe a model's capacity to make dec
isions based on ambiguous or insufficient data?</strong><br/>a. Fuzzy Logic<br/>b. G
enetic Algorithms<br/>c. Reinforcement Learning<br/>d. Deep Learning
, 
<strong>What is the name of the neural network architecture that has input, hidd
en, and output layers among its interconnected layers?</strong><br/>br/>a. Recurrent Neu
ral Network (RNN)<br/>b. Convolutional Neural Network (CNN)<br/>c. Feedforward Neura
1 Network<br/>br/>d. Radial Basis Function Network (RBFN)
, 
<strong>Which AI method is frequently used to divide data into groups or categor
ies based on their similarities?</strong><br/>br/>a. Reinforcement Learning<br/>br/>b. Clust
ering<br/>c. Regression<br/>d. Dimensionality Reduction
, 
<strong>What is the name of the method used in AI that enables a model to learn
from its errors and enhance its performance over time?</strong><br/>obr/>a. Reinforcement
Learning<br/>obr/>b. Supervised Learning<br/>cbr/>c. Unsupervised Learning<br/>dbr/>d. Semi-supervi
sed Learning
, 
<strong>What is the main objective of an AI system that does machine translation
using natural language processing (NLP)?</strong><br/>br/>a. To summarize text documents
<br/><br/>b. To convert speech to text<br/>c. To translate text from one language to anot
her<br/>d. To generate human-like text
, 
<strong>What is the name of a particular class of AI model that may produce new
data points that are comparable to current data points?</strong><br/>>cbr/>a. Discriminati
ve Model<br/>b. Generative Model<br/>c. Ensemble Model<br/>d. Reinforcement Model</l
i>
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c. Singular Value Decomposition (SVd.
d. Random Forest

Which of the following unsupervised learning techniques are often used f or dimensionality reduction?
or/>a. Decision Trees
b. Naive Bayes

,
What does the term "hyperparameter" refer in AI?
a. Paramet
ers learned by the model during training
br/>b. Parameters that define the structure
of the model
c. Parameters used to make predictions
d. Parameters related to
the loss function
,
Which of the following is a common algorithm used for recommendation sys
tems in AI?
br/>a. Naive Bayes
b. Linear Regression
c. Matrix Facto
rization
d. Decision Trees

```
In [4]: questions = []
    optionA = []
    optionB = []
    optionC = []
    optionD = []
```

```
In [5]: # Tách câu hỏi và đáp án
        def createdata(quiz_items):
            global questions
            global optionA
            global optionB
            global optionC
            global optionD
            for item in quiz_items:
                # Loại bỏ khoảng trắng
                text = item.text.strip()
                #text = text.replace('Xem đáp án', '') test web vietnam
                text = text.replace('"', '')
                # tách câu hỏi và đáp án ( đáp án bắt đầu từ a. b. c. d. ==> tách tất cả nh
                parts = text.split("a.", 1)
                if len(parts) == 2:
                    # câu hỏi
                    question = parts[0].strip()
                    question = ' '.join(question.split()) # xoá khoảng trắng và cách dòng
                    answers = parts[1]
                    # đáp án
                    options = answers.split("b.")
                    if len(options) == 2:
                         a = "A." + options[0].strip()
                        rest = options[1]
                         parts = rest.split("c.")
                        if len(parts) == 2:
                             b = "B." + parts[0].strip()
                             rest = parts[1]
                             parts = rest.split("d.")
                             if len(parts) == 2:
                                 c = "C." + parts[0].strip()
                                 d = "D." + parts[1].strip()
                                 questions.append(question)
                                 optionA.append(a)
```

```
In [7]: # Link 1 : https://mcqprime.com/machine-learning-mcq/
    # Link 2 : https://mcqprime.com/artificial-intelligence-mcq/
    quiz_items=0
    questions = []
    optionA = []
    optionB = []
    optionC = []
    optionD = []
    quiz_items=scap('https://mcqprime.com/artificial-intelligence-mcq/')
    df=createDf(quiz_items)
    df.head(10)
```

Out[7]:		Question	Option A	Option B	Option C	Option D
	0	What does "Al bias" mean when used in relation	A.The tendency of AI systems to make decisions	B.The unintentional discrimination in Al syste	C.The ability of Al systems to make decisions	D.The ethical considerations when designing Al
	1	Which Al technique is often used for clusterin	A.Regression	B.Reinforcement Learning	C.Supervised Learning	D.Unsupervised Learning
	2	What function does a Recurrent Neural Network	A.To classify images	B.To analyze text sentiment	C.To process sequences of data with memory	D.To play board games
	3	The main objective of artificial intelligence?	A.To replicate human intelligence exactly	B.To develop computer programs that can think	C.To mimic human behavior without understanding	D.To solve complex problems using algorithms
	4	What does "NLU" mean when referring to natural	A.Natural Language Understanding	B.Neural Language Unit	C.New Linguistic Understanding	D.Neutral Language Understanding
	5	What is the name of the kind of AI system that	A.Strong Al	B.Weak Al	C.Narrow Al	D.General Al
	6	What is the purpose of an AI chatbot?	A.To play video games	B.To automate routine customer service tasks	C.To generate random text	D.To translate languages
	7	Which Al application involves teaching a compu	A.Supervised Learning	B.Unsupervised Learning	C.Reinforcement Learning	D.Machine Vision
	8	What does "IoT" mean in terms of artificial in	A.Internet of Things	B.Intelligence of Technology	C.Input of Text	D.Internet of Training
	9	Which of the following is not a common applica	A.Sentiment analysis	B.Machine translation	C.Image recognition	D.Chatbots

```
In [8]: # save thành csv (test)
df.to_csv('lab1a.csv', index=True)
```

save thành json
df.to_json('lab1a.json', orient='records')