Question 1

Not yet answered

Marked out of 0.10

Put in historical order key events of AI development.

OpenAI introduce GPT-3 framework.

AlphaGo beat Lee Sedol in a five-game match.

AlexNet by Alex Krizhevsky won LSVRC-2012 competitions.

Deep Blue won match with Garry Kasparov.

First AI winter and popularisation of Lisp, key programming language for expert systems.

Alan Turing proposed the imitation game as a test of a machine's ability to exhibit intelligent behaviour.

Geoffrey Hinton applied the backpropagation algorithm to multi-layer neural networks.

Ian Goodfellow introduce Generative Adversarial Network framework.

Frank Rosenblatt constructed perceptron, electronical device which try simulate neurons processes.

Question 2

Not yet answered

Marked out of 0.10

Why numpy is better than list

Select one:

○ Memory efficiency

● Perfomance efficiency

○ Built in linear algebra operations

○ All above

Clear my choice

Question 3

Not yet answered

Marked out of 0.10

How to get dimensions of numpy array

Select one:

○ len(array)

○ np.shape(array)

◉ array.shape

○ array.shape()

Clear my choice

Question 4

Not yet answered

Marked out of 0.10

Given an numpy **array** with shape (2, 5). What is shape of **array**.reshape(-1)

Select one:

○ Raises an exception

○ (2, 5)

○ (5, 2)

◉ (10,)

Clear my choice

Question 5

Not yet answered

Marked out of 0.10

What should be result of two matrix summation:

mat1 = np.array([[1, 2], [3, 4]])
mat2 = np.array([[10], [5]])

mat1 + mat2

Select one:

○ Raises an exception

◉ array([[11, 12], [8, 9]])

○ array([[11, 7], [13, 9]])

Clear my choice

Question 6

Not yet answered

Marked out of 0.10

Select valid code for column extraction as a pandas.Series from DataFame:

Select one or more:

☑ df.age

☑ df["age"]

☐ df[["age"]]

Question 7

Not yet answered

Marked out of 0.10

By default, the mean() function includes Nan values when calculating the mean.

Select one:

○ True

● False

Clear my choice

Question 8

Not yet answered

Marked out of 0.10

What information does the describe function display?

Select one or more:

- ☑ count
- ☑ mean
- ☑ standard deviation
- ☑ minimum value
- ☑ 25th quartile
- ☑ 50th quartile
- ☑ 75th quartile
- ☑ maximum value

Question 9

Not yet answered

Marked out of 0.10

What is possible solutions to handling missing data?

Select one or more:

- ☐ Fill with mean
- ☐ Fill with random values
- ☐ Predict values based on another columns
- ☑ Drop corresponding rows
- ☑ Drop corresponding columns
- ☐ Fill with mode

Question 10

Not yet answered

Marked out of 0.10

Refresh statistic course. If dependent variable completely explainable by independent variable r^2 value tend to:

Select one:

- ⦿ 1
- ◯ 0.5
- ◯ 0

Clear my choice