

A00-405^{Q&As}

SAS Viya 3.5 Natural Language Processing and Computer Vision

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QUESTION 1

("Not*": This is an interactive item Follow the instructions to answer the question Scroll bars may appear if the windows are too small Each window can be re-sized by dragging on the 5 circles located between windows) Complete the statement on the right with the options on the left.

Select and Place:

Cross-correlation Convolution Linear operation Nonlinear operation Scale-invariant operation	Answer Area The combination function used by a convolution filter is a <input type="text"/> which is considered to be a <input type="text"/>
--	---

Correct Answer:

Convolution Nonlinear operation Scale-invariant operation	Answer Area The combination function used by a convolution filter is a <input type="text" value="Linear operation"/> which is considered to be a <input type="text" value="Cross-correlation"/>
---	--

QUESTION 2

Which statement is TRUE concerning the "dropout" option?

- A. It specifies the number of neurons to drop from each layer of the network
- B. It specifies the percentage of neurons to drop from a given layer of the network
- C. It specifies the percentage of neurons to drop from the entire network
- D. It specifies the number of layers to drop from the entire network

Correct Answer: B

QUESTION 3

Which statement is TRUE regarding the impact of node placement"?

- A. When a Concept node appears after a Text Parsing node, only kept terms derived by the Text Parsing node can be used in concept creation

- B. When a Concept node is placed after a Text Parsing node: the term table is affected by the concepts defined in the Concept node and the concepts impact every node that follows the Concept node
- C. When the Concept node appears before the Text Parsing node in the pipeline, the spell- checking features of the Concept node produce parent and child terms that show up as synonyms in the term table created by the Text Parsing node
- D. When a Concept node is placed before a Text Parsing node the term table is affected by the concepts defined in the Concept node and the concepts impact every node that follows the Text Parsing node

Correct Answer: C

QUESTION 4

What is the primary purpose of the Topics node?

- A. Document clustering
- B. Supervised categorization
- C. Information retrieval
- D. Unsupervised categorization

Correct Answer: D

QUESTION 5

Which option is the correct activation (unction for the output layer in a CNN model trained to classify an image belonging to one of the n classes (C1, C2, C3, , Cn)?

- A. Sigmoid
- B. ReLU
- C. TanH
- D. Softmax

Correct Answer: A

QUESTION 6

Assume no padding is used for the input.

What is the output feature map size created by the cross-correlation between a three color channel, 10*10 input and a 4*4 filter that has a stride of two?



Enter your numeric answers in the spaces above

A. 3*3

Correct Answer: A

QUESTION 7

Which is the correct syntax for using a previously defined LITI concept rule, `\"Date_of_Diagnosis\"` in a category rule?

A. `(_tmac, " [Date_Of_Diagnosis] ")`

B. `(AND, "{Date_Of_Diagnosis}")`

C. `(AND, "[Data_Off_Diagnosis]\")`

D. `(_tmac, "{Date_Of_Diagnosis} ")`

Correct Answer: D

QUESTION 8

Given the code to score images:

```
dlScore model=modelName,  
        table=testSetTbl,  
        copyVars={'_path_', '_image_'},  
        initWeights='VGG16_Weights',  
        nThreads=10,  
        miniBatchSize=2,  
        loglevel=2,  
        casout={'name':'outputTable', 'replace':True}
```

What is the actual batch size?

A. 20

B. 2

C. 40

D. 10

Correct Answer: D

QUESTION 9

Which concept rule must be used for generating factual extraction within a sentence containing machine learning and text analytics?

- A. PREDICATE_RULE:(a,b):(SENT, "_a{machine learning }", "_b{text analytics}")
- B. CONCEPT_RULE:(a,b):(SENT, "_a{machine learning }", "_b{text analytics}")
- C. PREDICATE_RULE:(a,b):(SENT, "_c{machine learning }", "_ref{text analytics}")
- D. CONCEPT_RULE:(SENT, "_c{machine learning }", "_ref{text analytics @}")

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 10

Refer to the Exhibit Tab:

ASRS : Topics			
Topics (14)			
<input type="checkbox"/>	Topic	Created by	Documents
<input checked="" type="checkbox"/>	tower, clearance, takeoff, hear, runway	System	3412
<input type="checkbox"/>	knot, flap, brake, gear, +autopilot	System	3257
<input type="checkbox"/>	approach, visual, runway, visual approach, +locate	System	3017
<input type="checkbox"/>	flap, takeoff, dispatch, flight, depart	System	3011
<input type="checkbox"/>	+foot, descend, altitude, +autopilot, cross	System	2973
<input type="checkbox"/>	engine, emergency, declare, smoke, cabin	System	2863
<input type="checkbox"/>	airspace, visualflightrules, classb, area, airspace	System	2611
<input type="checkbox"/>	install, maintain, inspect, minimequipmentlist, zzz	System	2601
<input type="checkbox"/>	degree, head, turn, radial, degree radial	System	2539
<input type="checkbox"/>	trafficalertandcollisionavoidancesystem, resolutionadvisory, traffic, +foot, climb	System	2192
<input type="checkbox"/>	passenger, flightattendant, seat, hi, captain	System	2069
<input checked="" type="checkbox"/>	taxiway, taxiway, taxi, ramp, groundcontrol	System	2038
<input checked="" type="checkbox"/>	hold, line, short line, short, short	System	2005
<input type="checkbox"/>	flightlevel, descend, aircraftnumber, center, aircraft	System	1964

An analyst is trying to find Aviation Safety Reports (ASR) related to taxiway and runway incursions

She does not know the LITI language She finds that 3 of the 14 derived topics have keywords related to incursion incidents. She would like to examine documents that discuss incursions from the current ASR document collection

Which strategy will best support the analyst's goals?

- A. Use the Concepts node to define an INCURSION concept then include this concept in a category rule in the Categories node to identify documents having the INCURSION concept
- B. Use the Merge topics feature of the Topics node to combine the 3 topics, add the merged topic as a category, and then use the Categories node to categorize documents with respect to the category rules derived using the merged topic Examine the matched documents for the incursion category rule.
- C. Save the output data from the Topics results window and use the Explore and Visualize Data component of SAS Viya
- D. Add each of the 3 individual topics as categories then create a category rule in the Categories node that combines the three topic categories using a Boolean OR operation Examine the matched documents fix the incursion category rule

Correct Answer: C

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