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SJSU EE104

Spring 2023

Due: 4/9/2023

Lab #6

Convolutional Neural Network: https://youtu.be/fZ2k5hJBSmQ

```
Console 1/A ×
Epoch 198/205
2500/2500 [============= ] - 189s 75ms/step - loss: 0.6672 -
accuracy: 0.7832 - val loss: 0.5112 - val accuracy: 0.8305
Epoch 199/205
2500/2500 [============= ] - 188s 75ms/step - loss: 0.6632 -
accuracy: 0.7848 - val_loss: 0.5379 - val_accuracy: 0.8201
Epoch 200/205
accuracy: 0.7881 - val_loss: 0.5014 - val_accuracy: 0.8311
Epoch 201/205
2500/2500 [======== ] - 188s 75ms/step - loss: 0.6556 -
accuracy: 0.7864 - val_loss: 0.5008 - val_accuracy: 0.8335
Epoch 202/205
2500/2500 [===========] - 187s 75ms/step - loss: 0.6521 -
accuracy: 0.7870 - val_loss: 0.5206 - val_accuracy: 0.8268
Epoch 203/205
2500/2500 [============ ] - 188s 75ms/step - loss: 0.6573 -
accuracy: 0.7862 - val_loss: 0.5010 - val_accuracy: 0.8313
Epoch 204/205
2500/2500 [============= ] - 188s 75ms/step - loss: 0.6564 -
accuracy: 0.7885 - val_loss: 0.5133 - val_accuracy: 0.8265
Epoch 205/205
2500/2500 [==============] - 188s 75ms/step - loss: 0.6526 -
accuracy: 0.7889 - val_loss: 0.5005 - val_accuracy: 0.8295
313/313 - 7s - loss: 0.5005 - accuracy: 0.8295 - 7s/epoch - 22ms/step
0.8295000195503235
                           IPython Console History
```

Epochs: 100

Batch Size: 25

Challenge Test: https://youtu.be/ZpBuMuATwWM

Correct answers:

Frog

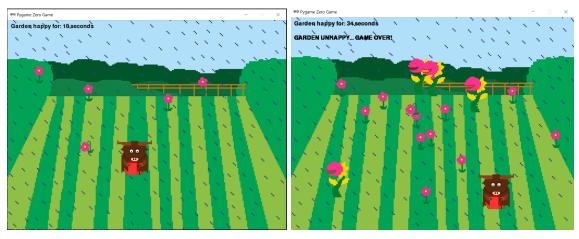
Airplane

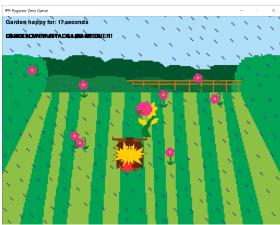
Automobile

Ship

Cat

Game Development - Happy Garden: https://youtu.be/vpNvlKB4JZg







Input something to name.

Input here	
Generate names	

Captain Pirate Hook, Captain Peg-Leg, Captain Cutlass, Captain Parrot

(Input was "Pirate")

Hello World to ChatGPT: https://youtu.be/KC2inFsIzok

(Python file is in the openai-quickstart-python-master folder)

```
Enter your question (or type 'quitme' to quit): how does a resistor work

A resistor is an electronic component that works by restricting the flow of electricity in a circuit. When electric current passes through a resistor, the resistor actively reduces the current flow, thereby converting some of the electrical energy into heat, which is dissipated. The amount of current that is allowed to pass through a resistor is determined by the resistance value of the resistor. This value is measured in ohms and is marked on the surface of the resistor. A higher resistance value results in a lower current flow, while a lower resistance value allows more current to pass through. Resistor types can also vary to achieve different resistance values.
```

(normal)

```
Enter your question (or type 'quitme' to quit):
how does a resistor work

A resistor works by providing a known resistance
to the flow of electrons in a circuit.
```

(changing engine to text-davinci-002)

```
Enter your question (or type 'quitme' to quit):
how do resistors work

A resistor helps electric current to slowdown
It also can make it weaker, so electric flow
don't overblow.
It's a fundamental component of the electric flow
Protection from too much power, helps circuits to
grow.
```

(changing prompt to "Answer {prompt} in rhymes")

Enter your question (or type 'quitme' to quit): how does a resistor work

A resistor is a type of electrical component that is used to restrict the flow of current in an electrical circuit. It is made up of a conducting material, such as metal, that is wrapped around a non-conducting material, such as plastic. The resistance of the resistor is determined by the ratio of the conducting material to the non-conducting material. The higher the ratio of conductor to insulator, the higher the resistance of the resistor.

(changing max tokens to 1028)

Enter your question (or type 'quitme' to quit):
how does a resistor work

A resistor is an electrical component that resists the flow of electric current. It is made up of a conductive material, often metal, that has a known resistance. When an electric current passes through the resistor, the conductor resists the electric flow, causing part of the current to be converted into heat. The resistor then reduces the amount of electric current in the circuit and can be used to set a current limit or to divide voltages in a circuit.

(changing n to 2)

Enter your question (or type 'quitme' to quit): how does a resistor work

A resistor is an electronic component that resists the flo

(changing stop to "w")

Enter your question (or type 'quitme' to quit): how does a resistor work

A resistor is an electrical component that resists the flow of electrical current. It works by creating a voltage drop across its terminals, which reduces the current flowing through the circuit. This is done by converting some of the electrical energy into heat energy, which is dissipated into the surrounding environment.

(changing temperature to 0.5)