EXPERIMENT 38

Prolog program for forward chaining incorporate required quiries

|  |
| --- |
| import numpy as np |
|  | import keras |
|  | from keras.models import Sequential |
|  | from keras.layers import Dense |
|  |  |
|  | # Define model architecture |
|  | model = Sequential() |
|  | model.add(Dense(10, input\_dim=8, activation='relu')) |
|  | model.add(Dense(1, activation='sigmoid')) |
|  |  |
|  | # Compile model |
|  | model.compile(loss='binary\_crossentropy', optimizer='adam', metrics=['accuracy']) |
|  |  |
|  | # Generate dummy data |
|  | data = np.random.random((1000, 8)) |
|  | labels = np.random.randint(2, size=(1000, 1)) |
|  |  |
|  | # Train the model |
|  | model.fit(data, labels, epochs=10, batch\_size=32) |