import pandas as pd import numpy as np import matplotlib.pyplot as plt from keras.models import Sequential from keras.layers import Dense

data = pd.read_csv('Downloads/pima-indians-diabetes.data.csv') data

	6	148	72	35	0	33.6	0.627	50	1
0	1	85	66	29	O	26.6	0.351	31	0
1	8	183	64	O	O	23.3	0.672	32	1
2	1	89	66	23	94	28.1	0.167	21	0
3	O	137	40	35	168	43.1	2.288	33	1
4	5	116	74	0	O	25.6	0.201	30	0
762	10	101	76	48	180	32.9	0.171	63	0
763	2	122	70	27	O	36.8	0.340	27	0
764	5	121	72	23	112	26.2	0.245	30	0
765	1	126	60	0	O	30.1	0.349	47	1
766	1	93	70	31	O	30.4	0.315	23	0

767 rows × 9 columns

x=data.iloc[:,0:7] y=data.iloc[:,7]

model = Sequential()
model.add(Dense(12,kernel_initializer='uniform',activation='relu'))

model.add(Dense(8,kernel_initializer='uniform',activation='relu'))

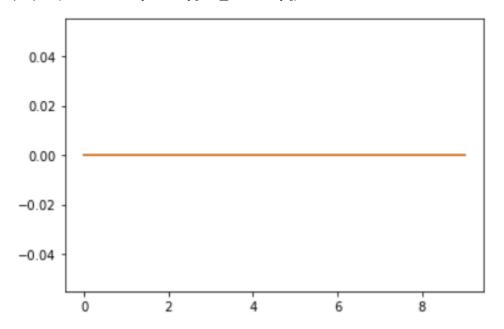
model.add(Dense(1,kernel_initializer='uniform',activation='sigmoid'))

model.compile(loss='binary_crossentropy',optimizer='adam',metrics='accuracy')

model.fit(x,y,validation_split=0.33,batch_size=30,epochs=10)

```
dict_keys(['loss', 'accuracy', 'val_loss', 'val_accuracy'])
```

plt.plot(model.history.history['accuracy'])
plt.plot(model.history.history['val_accuracy'])



plt.plot(model.history.history['loss'])
plt.plot(model.history.history['val_loss'])

