

PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

Learning Track

Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 4 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata_... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
[1]: import pandas as pd
import numpy as np

[2]: df_loan = pd.read_csv('loan_data.csv')

[3]: df_loan.head()

[3]: credit.policy      purpose  int.rate  installment  log.annual.inc  dti  fico  days.with.cr.line  revol.bal  revol.util  inq.last.6mths  delinq
   0          1 debt_consolidation    0.1189     829.10    11.350407  19.48    737    5639.958333    28854      52.1          0
   1          1 credit_card        0.1071     228.22    11.082143  14.29    707    2760.000000    33623      76.7          0
   2          1 debt_consolidation    0.1357     366.86    10.373491  11.63    682    4710.000000    3511      25.6          1
   3          1 debt_consolidation    0.1008     162.34    11.350407    8.10    712    2699.958333    33667      73.2          1
   4          1 credit_card        0.1426     102.92    11.299732  14.97    667    4066.000000    4740      39.5          0

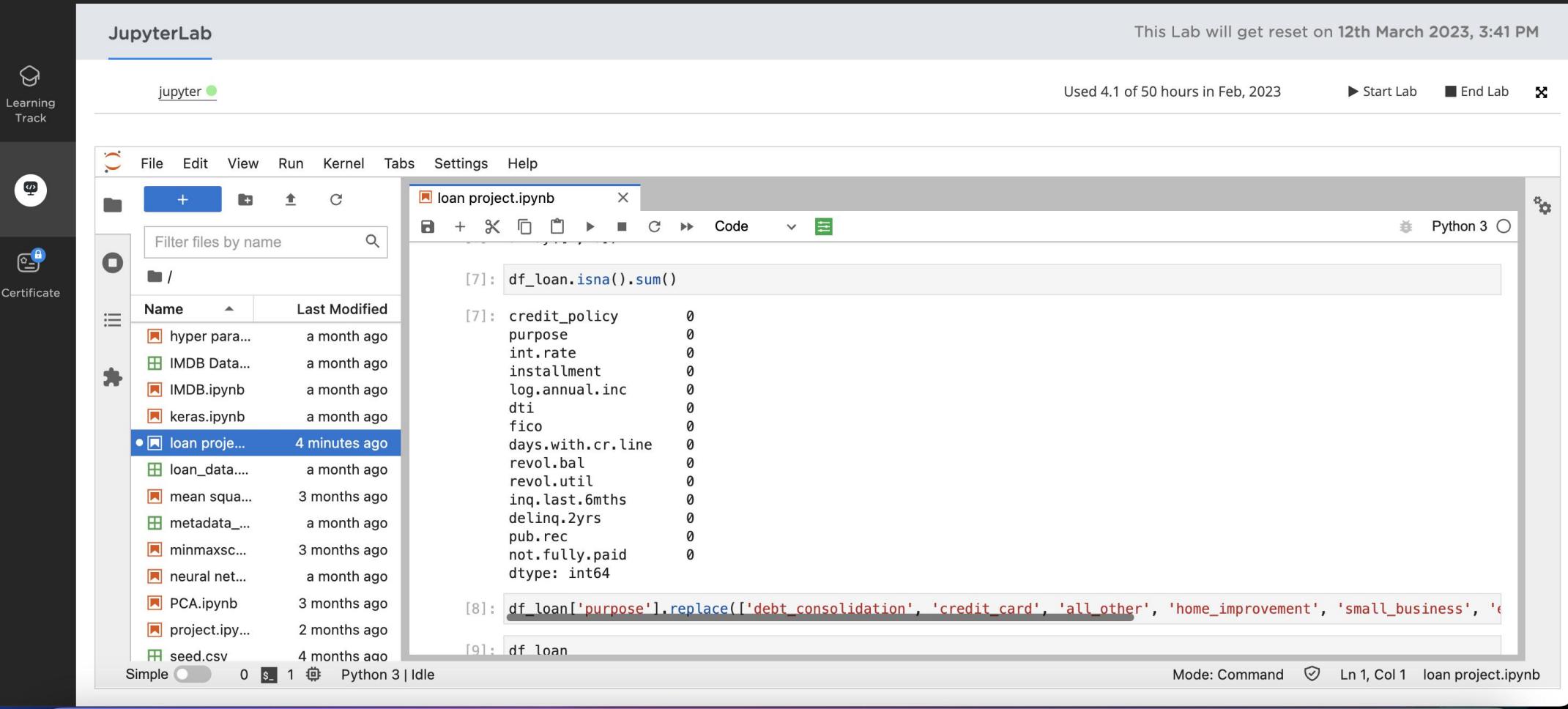
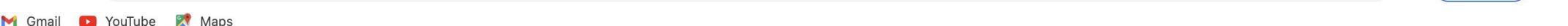
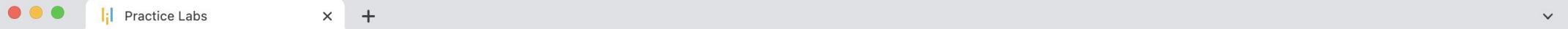
[4]: df_loan.shape

[4]: (9578, 14)
```

Mode: Command

Ln 1, Col 1 loan project.ipynb





Chrome File Edit View History Bookmarks Profiles Tab Window Help

74% Mon 27 Feb 12:29 PM

Practice Labs +

Gmail YouTube Maps

PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

Notes Community Help

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Learning Track

Certificate

File Edit View Run Kernel Tabs Settings Help

+ Filter files by name

Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 5 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata_... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

loan project.ipynb Python 3

[8]: df_loan['purpose'].replace(['debt_consolidation', 'credit_card', 'all_other', 'home_improvement', 'small_business', 'entertainment'], [

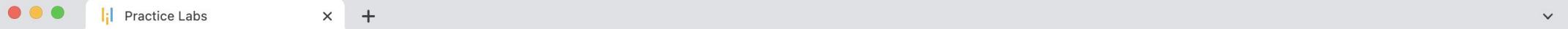
[9]: df_loan

	credit_policy	purpose	int.rate	installment	log.annual.inc	dti	fico	days.with.cr.line	revol.bal	revol.util	inq.last.6mths	delinq.2yrs
0	1	0	0.1189	829.10	11.350407	19.48	737	5639.958333	28854	52.1	0	0
1	1	1	0.1071	228.22	11.082143	14.29	707	2760.000000	33623	76.7	0	0
2	1	0	0.1357	366.86	10.373491	11.63	682	4710.000000	3511	25.6	1	0
3	1	0	0.1008	162.34	11.350407	8.10	712	2699.958333	33667	73.2	1	0
4	1	1	0.1426	102.92	11.299732	14.97	667	4066.000000	4740	39.5	0	1
...
9573	0	2	0.1461	344.76	12.180755	10.39	672	10474.000000	215372	82.1	2	0
9574	0	2	0.1253	257.70	11.141862	0.21	722	4380.000000	184	1.1	5	0
9575	0	0	0.1071	97.81	10.596635	13.09	687	3450.041667	10036	82.9	8	0
9576	0	3	0.1600	351.58	10.819778	19.18	692	1800.000000	0	3.2	5	0
9577	0	0	0.1392	853.43	11.264464	16.28	732	4740.000000	37879	57.0	6	0

Mode: Command Ln 1, Col 1 loan project.ipynb

Simple 0 \$ 1 Python 3 | Idle





JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

[28]: model.summary()

Layer (type)	Output Shape	Param #
dense (Dense)	(None, 128)	1792
dense_1 (Dense)	(None, 64)	8256
dense_2 (Dense)	(None, 32)	2080
dense_3 (Dense)	(None, 1)	33

Total params: 12,161
Trainable params: 12,161
Non-trainable params: 0

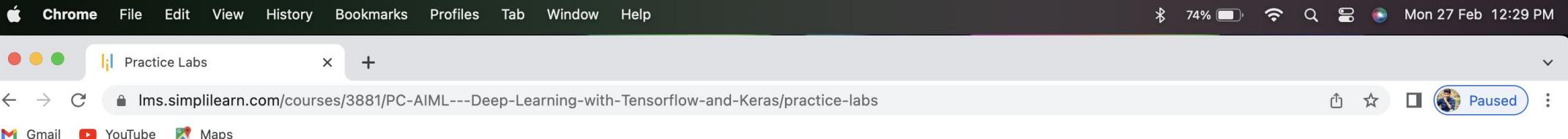
[29]: model.compile(optimizer='adam',

Mode: Command

Ln 1, Col 1 loan project.ipynb

Simple 0 \$ 1 Python 3 | Idle





PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

Learning Track

Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

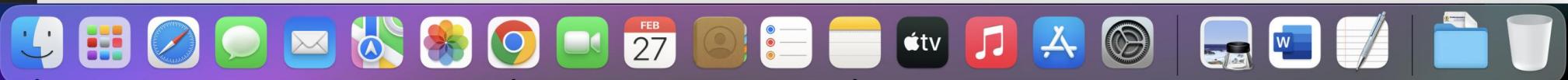
[30]: result = model.fit(X_train_scaled,
y_train,
validation_data = (X_test_scaled, y_test),
epochs=100)

Epoch 1/100
240/240 [=====] - 1s 3ms/step - loss: 0.2876 - accuracy: 0.8905 - val_loss: 0.2364 - val_accuracy: 0.8972
Epoch 2/100
240/240 [=====] - 1s 2ms/step - loss: 0.2105 - accuracy: 0.9152 - val_loss: 0.2066 - val_accuracy: 0.9181
Epoch 3/100
240/240 [=====] - 1s 2ms/step - loss: 0.1822 - accuracy: 0.9281 - val_loss: 0.1859 - val_accuracy: 0.9254
Epoch 4/100
240/240 [=====] - 1s 2ms/step - loss: 0.1657 - accuracy: 0.9353 - val_loss: 0.1744 - val_accuracy: 0.9295
Epoch 5/100
240/240 [=====] - 1s 2ms/step - loss: 0.1415 - accuracy: 0.9457 - val_loss: 0.1527 - val_accuracy: 0.9374
Epoch 6/100
240/240 [=====] - 1s 2ms/step - loss: 0.1284 - accuracy: 0.9528 - val_loss: 0.1430 - val_accuracy: 0.9528

Mode: Command

Simple 0 \$ 1 Python 3 | Idle

Ln 1, Col 1 loan project.ipynb



Practice Labs



lms.simplilearn.com/courses/3881/PC-AIML---Deep-Learning-with-Tensorflow-and-Keras/practice-labs



Gmail YouTube Maps

PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1



JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

jupyter

Used 4.1 of 50 hours in Feb, 2023

▶ Start Lab

■ End Lab



File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 5 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
Epoch 7/100
240/240 [=====] - 0s 2ms/step - loss: 0.1149 - accuracy: 0.9582 - val_loss: 0.1735 - val_accuracy: 0.9290
Epoch 8/100
240/240 [=====] - 0s 2ms/step - loss: 0.1044 - accuracy: 0.9622 - val_loss: 0.1300 - val_accuracy: 0.9556
Epoch 9/100
240/240 [=====] - 0s 2ms/step - loss: 0.0958 - accuracy: 0.9665 - val_loss: 0.1415 - val_accuracy: 0.9494
Epoch 10/100
240/240 [=====] - 1s 2ms/step - loss: 0.0901 - accuracy: 0.9695 - val_loss: 0.1260 - val_accuracy: 0.9515
Epoch 11/100
240/240 [=====] - 1s 2ms/step - loss: 0.0847 - accuracy: 0.9697 - val_loss: 0.1336 - val_accuracy: 0.9551
Epoch 12/100
240/240 [=====] - 1s 3ms/step - loss: 0.0782 - accuracy: 0.9727 - val_loss: 0.1169 - val_accuracy: 0.9567
Epoch 13/100
240/240 [=====] - 1s 2ms/step - loss: 0.0721 - accuracy: 0.9744 - val_loss: 0.1323 - val_accuracy: 0.9499
Epoch 14/100
```

Mode: Command Ln 1, Col 1 loan project.ipynb

Simple 0 \$ 1 Python 3 | Idle



Practice Labs

Gmail YouTube Maps

PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

Notes Community Help

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

jupyter

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

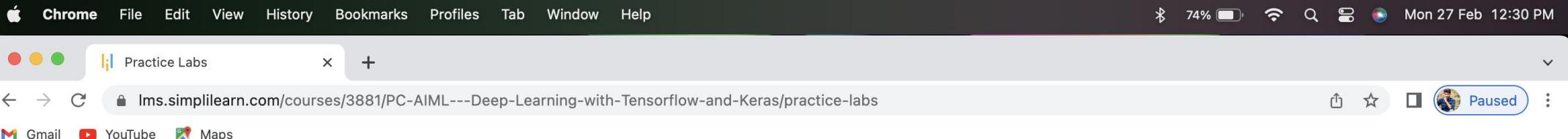
Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 5 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ipy... 2 months ago
- seed.csv 4 months ago

```
Epoch 14/100
240/240 [=====] - 1s 2ms/step - loss: 0.0660 - accuracy: 0.9768 - val_loss: 0.1182 - val_accuracy: 0.9572
Epoch 15/100
240/240 [=====] - 0s 2ms/step - loss: 0.0643 - accuracy: 0.9772 - val_loss: 0.1141 - val_accuracy: 0.9582
Epoch 16/100
240/240 [=====] - 0s 2ms/step - loss: 0.0587 - accuracy: 0.9792 - val_loss: 0.1104 - val_accuracy: 0.9635
Epoch 17/100
240/240 [=====] - 1s 2ms/step - loss: 0.0549 - accuracy: 0.9808 - val_loss: 0.1509 - val_accuracy: 0.9551
Epoch 18/100
240/240 [=====] - 1s 3ms/step - loss: 0.0551 - accuracy: 0.9796 - val_loss: 0.1244 - val_accuracy: 0.9582
Epoch 19/100
240/240 [=====] - 1s 2ms/step - loss: 0.0497 - accuracy: 0.9838 - val_loss: 0.1443 - val_accuracy: 0.9551
Epoch 20/100
240/240 [=====] - 0s 2ms/step - loss: 0.0503 - accuracy: 0.9832 - val_loss: 0.1289 - val_accuracy: 0.9619
Epoch 21/100
```

Mode: Command Ln 1, Col 1 loan project.ipynb





PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 5 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
Epoch 21/100
240/240 [=====] - 1s 2ms/step - loss: 0.0459 - accuracy: 0.9843 - val_loss: 0.1220 - val_accuracy: 0.9619
Epoch 22/100
240/240 [=====] - 1s 2ms/step - loss: 0.0409 - accuracy: 0.9866 - val_loss: 0.1307 - val_accuracy: 0.9588
Epoch 23/100
240/240 [=====] - 0s 2ms/step - loss: 0.0410 - accuracy: 0.9847 - val_loss: 0.1289 - val_accuracy: 0.9588
Epoch 24/100
240/240 [=====] - 1s 2ms/step - loss: 0.0404 - accuracy: 0.9860 - val_loss: 0.1462 - val_accuracy: 0.9562
Epoch 25/100
240/240 [=====] - 0s 2ms/step - loss: 0.0360 - accuracy: 0.9862 - val_loss: 0.1538 - val_accuracy: 0.9551
Epoch 26/100
240/240 [=====] - 0s 2ms/step - loss: 0.0367 - accuracy: 0.9851 - val_loss: 0.1542 - val_accuracy: 0.9556
Epoch 27/100
240/240 [=====] - 0s 2ms/step - loss: 0.0308 - accuracy: 0.9892 - val_loss: 0.1388 - val_accuracy: 0.9593
Epoch 28/100
240/240 [=====] - 0s 2ms/step - loss: 0.0308 - accuracy: 0.9892 - val_loss: 0.1388 - val_accuracy: 0.9593
```

Mode: Command

Ln 1, Col 1 loan project.ipynb

Simple 0 \$ 1 Python 3 | Idle

27 FEB

Chrome File Edit View History Bookmarks Profiles Tab Window Help

74% 27 Feb 12:30 PM

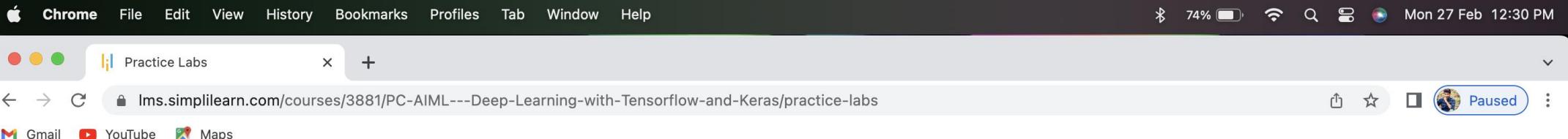
Gmail YouTube Maps

Paused

Learning Track Certificate

Notes Community Help

Smiley Face App Store Mail App Store Photos App Store TV App Store Music App Store Wallet App Store Notes App Store Calendar App Store



PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

Learning Track

Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

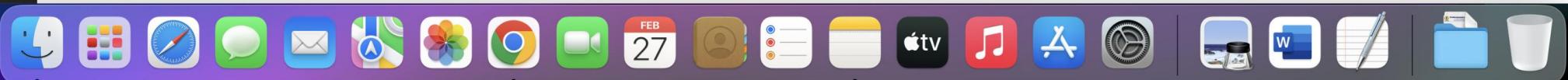
Name Last Modified

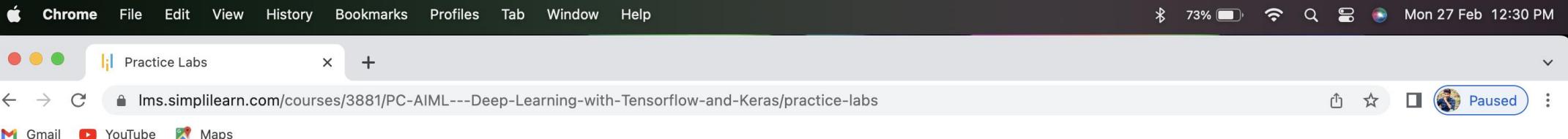
- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 5 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
Epoch 28/100
240/240 [=====] - 1s 2ms/step - loss: 0.0276 - accuracy: 0.9903 - val_loss: 0.1412 - val_accuracy: 0.9614
Epoch 29/100
240/240 [=====] - 1s 2ms/step - loss: 0.0242 - accuracy: 0.9915 - val_loss: 0.1577 - val_accuracy: 0.9509
Epoch 30/100
240/240 [=====] - 1s 2ms/step - loss: 0.0253 - accuracy: 0.9913 - val_loss: 0.1599 - val_accuracy: 0.9577
Epoch 31/100
240/240 [=====] - 1s 2ms/step - loss: 0.0359 - accuracy: 0.9853 - val_loss: 0.1406 - val_accuracy: 0.9567
Epoch 32/100
240/240 [=====] - 0s 2ms/step - loss: 0.0276 - accuracy: 0.9918 - val_loss: 0.1690 - val_accuracy: 0.9546
Epoch 33/100
240/240 [=====] - 1s 2ms/step - loss: 0.0302 - accuracy: 0.9885 - val_loss: 0.1406 - val_accuracy: 0.9624
Epoch 34/100
240/240 [=====] - 1s 2ms/step - loss: 0.0229 - accuracy: 0.9924 - val_loss: 0.1535 - val_accuracy: 0.9582
Epoch 35/100
```

Mode: Command

Ln 1, Col 1 loan project.ipynb





PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

Learning Track

Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

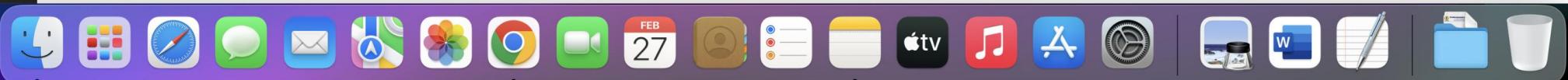
Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 6 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
Epoch 49/100
240/240 [=====] - 0s 2ms/step - loss: 0.0190 - accuracy: 0.9928 - val_loss: 0.1890 - val_accuracy: 0.9535
Epoch 50/100
240/240 [=====] - 0s 2ms/step - loss: 0.0156 - accuracy: 0.9945 - val_loss: 0.1805 - val_accuracy: 0.9635
Epoch 51/100
240/240 [=====] - 0s 2ms/step - loss: 0.0117 - accuracy: 0.9967 - val_loss: 0.1962 - val_accuracy: 0.9541
Epoch 52/100
240/240 [=====] - 0s 2ms/step - loss: 0.0162 - accuracy: 0.9940 - val_loss: 0.1773 - val_accuracy: 0.9645
Epoch 53/100
240/240 [=====] - 0s 2ms/step - loss: 0.0098 - accuracy: 0.9973 - val_loss: 0.2012 - val_accuracy: 0.9598
Epoch 54/100
240/240 [=====] - 0s 2ms/step - loss: 0.0109 - accuracy: 0.9966 - val_loss: 0.2054 - val_accuracy: 0.9614
Epoch 55/100
240/240 [=====] - 0s 2ms/step - loss: 0.0133 - accuracy: 0.9961 - val_loss: 0.1914 - val_accuracy: 0.9562
Epoch 56/100
240/240 [=====] - 0s 2ms/step - loss: 0.0187 - accuracy: 0.9966 - val_loss: 0.2162 - val_accuracy: 0.9627
```

Mode: Command

Ln 1, Col 1 loan project.ipynb



Chrome File Edit View History Bookmarks Profiles Tab Window Help

73% Mon 27 Feb 12:30 PM

Practice Labs + lms.simplilearn.com/courses/3881/PC-AIML---Deep-Learning-with-Tensorflow-and-Keras/practice-labs

Gmail YouTube Maps

PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

Notes Community Help

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

Learning Track

Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 6 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
Epoch 56/100
240/240 [=====] - 0s 2ms/step - loss: 0.0107 - accuracy: 0.9966 - val_loss: 0.2162 - val_accuracy: 0.9629
Epoch 57/100
240/240 [=====] - 0s 2ms/step - loss: 0.0250 - accuracy: 0.9932 - val_loss: 0.1865 - val_accuracy: 0.9525
Epoch 58/100
240/240 [=====] - 0s 2ms/step - loss: 0.0105 - accuracy: 0.9969 - val_loss: 0.2088 - val_accuracy: 0.9614
Epoch 59/100
240/240 [=====] - 0s 2ms/step - loss: 0.0185 - accuracy: 0.9939 - val_loss: 0.2407 - val_accuracy: 0.9530
Epoch 60/100
240/240 [=====] - 0s 2ms/step - loss: 0.0216 - accuracy: 0.9939 - val_loss: 0.2000 - val_accuracy: 0.9567
Epoch 61/100
240/240 [=====] - 0s 2ms/step - loss: 0.0103 - accuracy: 0.9960 - val_loss: 0.2127 - val_accuracy: 0.9546
Epoch 62/100
240/240 [=====] - 0s 2ms/step - loss: 0.0070 - accuracy: 0.9983 - val_loss: 0.1993 - val_accuracy: 0.9645
Epoch 63/100
240/240 [=====] - 0s 2ms/step - loss: 0.0033 - accuracy: 0.9992 - val_loss: 0.2049 - val_accuracy: 0.9992
```

Mode: Command Ln 1, Col 1 loan project.ipynb

Simple 0 \$ 1 Python 3 | Idle

27

27 Feb

Apple TV

Music

App Store

System Preferences

Safari

Mail

Maps

Calculator

Notes

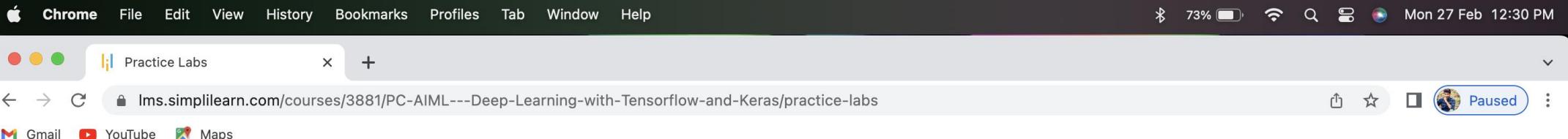
Word

Numbers

Pages

Finder

Trash



PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

Learning Track

Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

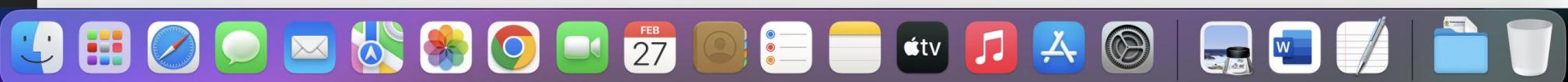
Name Last Modified

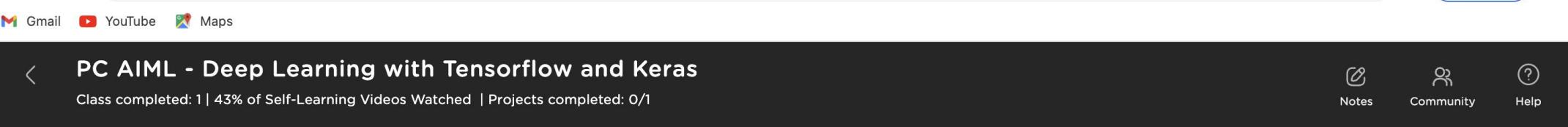
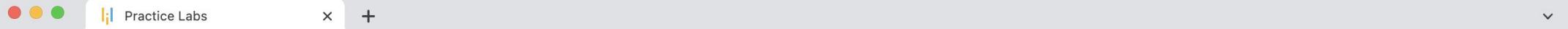
- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 6 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
Epoch 63/100
240/240 [=====] - 0s 2ms/step - loss: 0.0033 - accuracy: 0.9992 - val_loss: 0.2049 - val_accuracy: 0.9609
Epoch 64/100
240/240 [=====] - 0s 2ms/step - loss: 0.0024 - accuracy: 0.9993 - val_loss: 0.2236 - val_accuracy: 0.9624
Epoch 65/100
240/240 [=====] - 0s 2ms/step - loss: 0.0054 - accuracy: 0.9987 - val_loss: 0.2984 - val_accuracy: 0.9452
Epoch 66/100
240/240 [=====] - 0s 2ms/step - loss: 0.0313 - accuracy: 0.9902 - val_loss: 0.1900 - val_accuracy: 0.9551
Epoch 67/100
240/240 [=====] - 0s 2ms/step - loss: 0.0257 - accuracy: 0.9914 - val_loss: 0.1947 - val_accuracy: 0.9489
Epoch 68/100
240/240 [=====] - 0s 2ms/step - loss: 0.0076 - accuracy: 0.9979 - val_loss: 0.2064 - val_accuracy: 0.9535
Epoch 69/100
240/240 [=====] - 0s 2ms/step - loss: 0.0133 - accuracy: 0.9952 - val_loss: 0.1948 - val_accuracy: 0.9635
Epoch 70/100
240/240 [=====] - 0s 2ms/step - loss: 0.0069 - accuracy: 0.9970 - val_loss: 0.2157 - val_accuracy: 0.9700
```

Mode: Command

Ln 1, Col 1 loan project.ipynb





JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

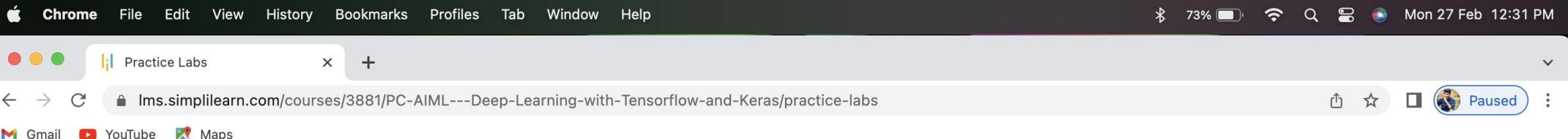
Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 6 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
Epoch 70/100
240/240 [=====] - 0s 2ms/step - loss: 0.0068 - accuracy: 0.9979 - val_loss: 0.2157 - val_accuracy: 0.9640
Epoch 71/100
240/240 [=====] - 0s 2ms/step - loss: 0.0092 - accuracy: 0.9975 - val_loss: 0.1978 - val_accuracy: 0.9635
Epoch 72/100
240/240 [=====] - 0s 2ms/step - loss: 0.0032 - accuracy: 0.9993 - val_loss: 0.2031 - val_accuracy: 0.9624
Epoch 73/100
240/240 [=====] - 0s 2ms/step - loss: 0.0167 - accuracy: 0.9944 - val_loss: 0.2261 - val_accuracy: 0.9629
Epoch 74/100
240/240 [=====] - 0s 2ms/step - loss: 0.0135 - accuracy: 0.9956 - val_loss: 0.2675 - val_accuracy: 0.9577
Epoch 75/100
240/240 [=====] - 0s 2ms/step - loss: 0.0144 - accuracy: 0.9967 - val_loss: 0.1924 - val_accuracy: 0.9629
Epoch 76/100
240/240 [=====] - 0s 2ms/step - loss: 0.0027 - accuracy: 0.9992 - val_loss: 0.2004 - val_accuracy: 0.9629
Epoch 77/100
240/240 [=====] - 0s 2ms/step - loss: 0.0027 - accuracy: 0.9992 - val_loss: 0.2004 - val_accuracy: 0.9629
```

Simple Python 3 | Idle Mode: Command Ln 1, Col 1 loan project.ipynb





PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Start Lab End Lab

JupyterLab

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

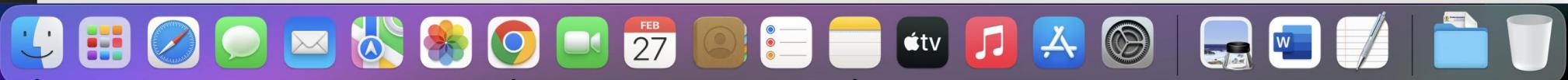
Name Last Modified

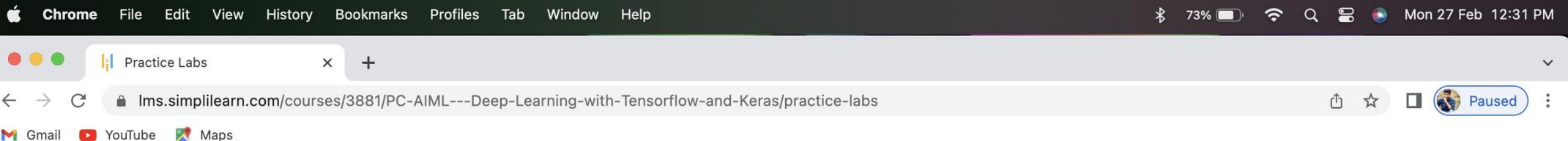
- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 7 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

```
Epoch 77/100
240/240 [=====] - 0s 2ms/step - loss: 0.0026 - accuracy: 0.9996 - val_loss: 0.2049 - val_accuracy: 0.9635
Epoch 78/100
240/240 [=====] - 0s 2ms/step - loss: 0.0022 - accuracy: 0.9993 - val_loss: 0.2255 - val_accuracy: 0.9661
Epoch 79/100
240/240 [=====] - 0s 2ms/step - loss: 0.0263 - accuracy: 0.9919 - val_loss: 0.2203 - val_accuracy: 0.9577
Epoch 80/100
240/240 [=====] - 0s 2ms/step - loss: 0.0187 - accuracy: 0.9935 - val_loss: 0.2456 - val_accuracy: 0.9567
Epoch 81/100
240/240 [=====] - 0s 2ms/step - loss: 0.0177 - accuracy: 0.9948 - val_loss: 0.2268 - val_accuracy: 0.9572
Epoch 82/100
240/240 [=====] - 0s 2ms/step - loss: 0.0084 - accuracy: 0.9975 - val_loss: 0.2006 - val_accuracy: 0.9603
Epoch 83/100
240/240 [=====] - 0s 2ms/step - loss: 0.0034 - accuracy: 0.9992 - val_loss: 0.2158 - val_accuracy: 0.9650
Epoch 84/100
```

Mode: Command

Ln 1, Col 1 loan project.ipynb





PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

jupyter [Green dot]

Start Lab End Lab

Learning Track

Certificate

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

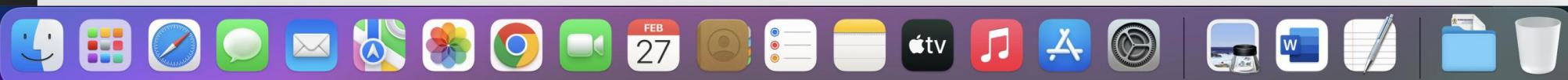
Python 3

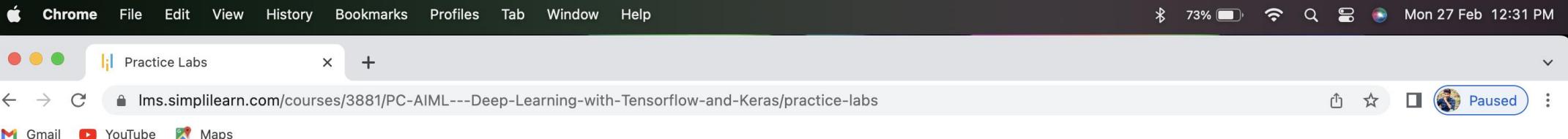
Epoch 84/100
240/240 [=====] - 0s 2ms/step - loss: 0.0016 - accuracy: 0.9996 - val_loss: 0.1985 - val_accuracy: 0.9640
Epoch 85/100
240/240 [=====] - 0s 2ms/step - loss: 0.0022 - accuracy: 0.9990 - val_loss: 0.2192 - val_accuracy: 0.9656
Epoch 86/100
240/240 [=====] - 0s 2ms/step - loss: 0.0047 - accuracy: 0.9986 - val_loss: 0.2524 - val_accuracy: 0.9546
Epoch 87/100
240/240 [=====] - 0s 2ms/step - loss: 0.0263 - accuracy: 0.9923 - val_loss: 0.2057 - val_accuracy: 0.9609
Epoch 88/100
240/240 [=====] - 0s 2ms/step - loss: 0.0121 - accuracy: 0.9970 - val_loss: 0.2126 - val_accuracy: 0.9619
Epoch 89/100
240/240 [=====] - 0s 2ms/step - loss: 0.0065 - accuracy: 0.9975 - val_loss: 0.2233 - val_accuracy: 0.9588
Epoch 90/100
240/240 [=====] - 0s 2ms/step - loss: 0.0095 - accuracy: 0.9969 - val_loss: 0.2044 - val_accuracy: 0.9614
Epoch 91/100
240/240 [=====] - 0s 2ms/step - loss: 0.0063 - accuracy: 0.9982 - val_loss: 0.1967 - val_accuracy: 0.9631

Mode: Command

Ln 1, Col 1 loan project.ipynb

Simple Python 3 | Idle





PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

Notes Community Help

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

jupyter

Used 4.1 of 50 hours in Feb, 2023

▶ Start Lab ■ End Lab

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

uracy: 0.9055
Epoch 94/100
240/240 [=====] - 0s 2ms/step - loss: 0.0035 - accuracy: 0.9988 - val_loss: 0.2215 - val_acc
uracy: 0.9609
Epoch 95/100
240/240 [=====] - 0s 2ms/step - loss: 0.0020 - accuracy: 0.9996 - val_loss: 0.2385 - val_acc
uracy: 0.9650
Epoch 96/100
240/240 [=====] - 0s 2ms/step - loss: 0.0013 - accuracy: 0.9996 - val_loss: 0.2385 - val_acc
uracy: 0.9624
Epoch 97/100
240/240 [=====] - 0s 2ms/step - loss: 0.0029 - accuracy: 0.9990 - val_loss: 0.2512 - val_acc
uracy: 0.9619
Epoch 98/100
240/240 [=====] - 0s 2ms/step - loss: 0.0024 - accuracy: 0.9995 - val_loss: 0.2456 - val_acc
uracy: 0.9635
Epoch 99/100
240/240 [=====] - 1s 2ms/step - loss: 0.0091 - accuracy: 0.9977 - val_loss: 0.3390 - val_acc
uracy: 0.9541
Epoch 100/100
240/240 [=====] - 0s 2ms/step - loss: 0.0494 - accuracy: 0.9846 - val_loss: 0.1919 - val_acc
uracy: 0.9598

Mode: Command

Simple 0 \$ 1 Python 3 | Idle

Ln 1, Col 1 loan project.ipynb



Chrome File Edit View History Bookmarks Profiles Tab Window Help

73% Mon 27 Feb 12:31 PM

Practice Labs +

Gmail YouTube Maps

PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

Notes Community Help

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Learning Track Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

[34]: confusion_matrix(y_pred=y_train_pred >= 0.5,
y_true = y_train)

[34]: array([[1481, 13],
[6, 6162]])

[35]: accuracy_score(y_pred=y_train_pred >= 0.5,
y_true = y_train)

[35]: 0.9975202297050378

[36]: confusion_matrix(y_pred=y_test_pred >= 0.5,
y_true = y_test)

[36]: array([[321, 53],
[24, 1518]])

[37]: accuracy_score(y_pred=y_test_pred >= 0.5,
y_true = y_test)

[37]: 0.9598121085594989

Mode: Command Ln 1, Col 1 loan project.ipynb

Simple 0 \$ 1 Python 3 | Idle

Chrome File Edit View History Bookmarks Profiles Tab Window Help

73% Mon 27 Feb 12:32 PM

Practice Labs +

Gmail YouTube Maps

PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

Notes Community Help

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Learning Track Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb Python 3

Filter files by name

Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 8 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata.... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

[38]: history = pd.DataFrame(result.history)

[39]: history.head()

	loss	accuracy	val_loss	val_accuracy
0	0.287570	0.890499	0.236369	0.897182
1	0.210523	0.915166	0.206600	0.918058
2	0.182182	0.928087	0.185869	0.925365
3	0.165670	0.935265	0.174412	0.929541
4	0.141542	0.945706	0.152695	0.937370

[40]: import matplotlib.pyplot as plt

[41]: plt.figure(figsize = (25,6))
plt.plot(history.val_loss, label='Test Set Loss')
plt.plot(history.loss, label='Training Set Loss')
plt.title('Epochs vs Loss')

Mode: Command Ln 1, Col 1 loan project.ipynb

Simple 0 \$ 1 Python 3 | Idle

Chrome File Edit View History Bookmarks Profiles Tab Window Help

73% Mon 27 Feb 12:32 PM

Practice Labs + Paused

Gmail YouTube Maps

PC AIML - Deep Learning with Tensorflow and Keras

Class completed: 1 | 43% of Self-Learning Videos Watched | Projects completed: 0/1

Notes Community Help

JupyterLab

This Lab will get reset on 12th March 2023, 3:41 PM

Used 4.1 of 50 hours in Feb, 2023

Learning Track Certificate

jupyter

File Edit View Run Kernel Tabs Settings Help

loan project.ipynb

Filter files by name

Name Last Modified

- hyper para... a month ago
- IMDB Data... a month ago
- IMDB.ipynb a month ago
- keras.ipynb a month ago
- loan proj... 8 minutes ago
- loan_data.... a month ago
- mean squa... 3 months ago
- metadata_... a month ago
- minmaxsc... 3 months ago
- neural net... a month ago
- PCA.ipynb 3 months ago
- project.ip... 2 months ago
- seed.csv 4 months ago

Python 3

plt.ylabel('Loss')
plt.legend()
plt.show()

Epochs vs Loss

[42]: plt.figure(figsize = (15,6))
plt.plot(history.val_accuracy, label='Test Set Accuracy')
plt.plot(history.accuracy, label='Training Set Accuracy')

Mode: Command Ln 1, Col 1 loan project.ipynb

Simple 0 \$ 1 Python 3 | Idle



