

faqs = ""About the Program

What is the course fee for Data Science Mentorship Program (DSMP 2023)

The course follows a monthly subscription model where you have to make monthly payments of Rs 799/month.

What is the total duration of the course?

The total duration of the course is 7 months. So the total course fee becomes $799 \times 7 = \text{Rs } 5600$ (approx.)

What is the syllabus of the mentorship program?

We will be covering the following modules:

Python Fundamentals

Python libraries for Data Science

Data Analysis

SQL for Data Science

Maths for Machine Learning

ML Algorithms

Practical ML

MLOPs

Will Deep Learning and NLP be a part of this program?

No, NLP and Deep Learning both are not a part of this program's curriculum.

What if I miss a live session? Will I get a recording of the session?

Yes all our sessions are recorded, so even if you miss a session you can go back and watch the recording.

What is the time duration of all the live sessions?

Roughly, all the sessions last 2 hours.

What is the language spoken by the instructor during the sessions?

Hinglish

How will I be informed about the upcoming class?

You will get a mail from our side before every paid session once you become a paid user.

Can I do this course if I am from a non-tech background?

Yes, absolutely.

I am late, can I join the program in the middle?

Absolutely, you can join the program anytime.

If I join/pay in the middle, will I be able to see all the past lectures?

Yes, once you make the payment you will be able to see all the past content in your dashboard.

Where do I have to submit the task?

You don't have to submit the task. We will provide you with the solutions, you have to self evaluate the task yourself.

Will we do case studies in the program?

Yes.

Payment/Registration related questions

Can we pay the entire amount of Rs 5600 all at once?

Unfortunately no, the program follows a monthly subscription model.

What is the validity of monthly subscription? Suppose if I pay on 15th Jan, then do I have to pay again on 1st Feb or 15th Feb

15th Feb. The validity period is 30 days from the day you make the payment. So essentially you can join anytime you don't have to wait for a month to end.

What if I don't like the course after making the payment. What is the refund policy?

You get a 7 days refund period from the day you have made the payment.

Post registration queries

Till when can I view the paid videos on the website?

This one is tricky, so read carefully. You can watch the videos till your subscription is valid. Suppose you have purchased subscription on 21st Jan, you will be able to watch all the past paid sessions in the period of 21st Jan to 20th Feb. But after 21st Feb you will have to purchase the subscription again.

But once the course is over and you have paid us Rs 5600(or 7 installments of Rs 799) you will be able to watch the paid sessions till Aug 2024.

Why lifetime validity is not provided?

Because of the low course fee.

Where can I reach out in case of a doubt after the session?

You will have to fill a google form provided in your dashboard and our team will contact you for a 1 on 1 doubt clearance session

If I join the program late, can I still ask past week doubts?

Yes, just select past week doubt in the doubt clearance google form.

Certificate and Placement Assistance related queries

What is the criteria to get the certificate?

There are 2 criterias:

You have to pay the entire fee of Rs 5600

You have to attempt all the course assessments.

I am joining late. How can I pay payment of the earlier months?

You will get a link to pay fee of earlier months in your dashboard once you pay for the current month.

I have read that Placement assistance is a part of this program. What comes under Placement assistance?

This is to clarify that Placement assistance does not mean Placement guarantee. So we don't guarantee you any jobs or for that matter even interview calls. So if you are planning to join this course just for placements, I am afraid you will be disappointed. Here is what comes under placement assistance

Portfolio Building sessions

Soft skill sessions

Sessions with industry mentors

Discussion on Job hunting strategies

""

```
import tensorflow as tf
from tensorflow.keras.preprocessing.text import Tokenizer

tokenizer = Tokenizer()

tokenizer.fit_on_texts([faqs])
```

```

len(tokenizer.word_index)
251
tokenizer.word_index["nlp"]
84
input_sequences = []
for sentence in faqs.split('\n'):
    tokenized_sentence = tokenizer.texts_to_sequences([sentence])[0]

    for i in range(1, len(tokenized_sentence)):
        input_sequences.append(tokenized_sentence[:i+1])

input_sequences[:20]
[[77, 1],
 [77, 1, 13],
 [10, 6],
 [10, 6, 1],
 [10, 6, 1, 11],
 [10, 6, 1, 11, 32],
 [10, 6, 1, 11, 32, 14],
 [10, 6, 1, 11, 32, 14, 40],
 [10, 6, 1, 11, 32, 14, 40, 52],
 [10, 6, 1, 11, 32, 14, 40, 52, 78],
 [10, 6, 1, 11, 32, 14, 40, 52, 78, 13],
 [10, 6, 1, 11, 32, 14, 40, 52, 78, 13, 123],
 [10, 6, 1, 11, 32, 14, 40, 52, 78, 13, 123, 124],
 [1, 11],
 [1, 11, 79],
 [1, 11, 79, 7],
 [1, 11, 79, 7, 41],
 [1, 11, 79, 7, 41, 22],
 [1, 11, 79, 7, 41, 22, 80],
 [1, 11, 79, 7, 41, 22, 80, 53]]

max_len = max([len(x) for x in input_sequences])
max_len
57

from tensorflow.keras.preprocessing.sequence import pad_sequences
padded_input_sequences = pad_sequences(input_sequences, maxlen =
max_len, padding='pre')

padded_input_sequences
array([[ 0,  0,  0, ...,  0, 77,  1],
       [ 0,  0,  0, ..., 77,  1, 13],
       [ 0,  0,  0, ...,  0, 10,  6],

```

```

    ...,
    [ 0, 0, 0, ..., 248, 30, 249],
    [ 0, 0, 0, ..., 30, 249, 250],
    [ 0, 0, 0, ..., 249, 250, 251]])

X = padded_input_sequences[:, :-1]
y = padded_input_sequences[:, -1]

X.shape
(704, 56)

y.shape
(704,)

from tensorflow.keras.utils import to_categorical
y = to_categorical(y, num_classes=len(tokenizer.word_index)+1)

y.shape
(704, 252)

from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Embedding, LSTM, Dense

model = Sequential()
model.add(Embedding(len(tokenizer.word_index)+1, 100))
model.add(LSTM(150, return_sequences=True)) # Added
return_sequences=True
model.add(LSTM(150))
model.add(Dense(len(tokenizer.word_index)+1, activation='softmax'))

model.compile(loss='categorical_crossentropy',
optimizer='adam', metrics=['accuracy'])

model.fit(X, y, epochs=75)

Epoch 1/75
22/22 _____ 2s 29ms/step - accuracy: 0.0570 - loss:
5.4329
Epoch 2/75
22/22 _____ 1s 29ms/step - accuracy: 0.0899 - loss:
4.9516
Epoch 3/75
22/22 _____ 1s 30ms/step - accuracy: 0.0738 - loss:
4.8953
Epoch 4/75
22/22 _____ 1s 29ms/step - accuracy: 0.1107 - loss:
4.8408
Epoch 5/75

```

```
22/22 _____ 1s 29ms/step - accuracy: 0.0906 - loss:
4.8633
Epoch 6/75
22/22 _____ 1s 30ms/step - accuracy: 0.0891 - loss:
4.8537
Epoch 7/75
22/22 _____ 1s 30ms/step - accuracy: 0.0831 - loss:
4.8175
Epoch 8/75
22/22 _____ 1s 29ms/step - accuracy: 0.0727 - loss:
4.8835
Epoch 9/75
22/22 _____ 1s 30ms/step - accuracy: 0.1088 - loss:
4.6207
Epoch 10/75
22/22 _____ 1s 29ms/step - accuracy: 0.0973 - loss:
4.6764
Epoch 11/75
22/22 _____ 1s 30ms/step - accuracy: 0.0937 - loss:
4.6482
Epoch 12/75
22/22 _____ 1s 31ms/step - accuracy: 0.0811 - loss:
4.5960
Epoch 13/75
22/22 _____ 1s 32ms/step - accuracy: 0.1051 - loss:
4.4714
Epoch 14/75
22/22 _____ 1s 32ms/step - accuracy: 0.1005 - loss:
4.4375
Epoch 15/75
22/22 _____ 1s 31ms/step - accuracy: 0.0888 - loss:
4.3234
Epoch 16/75
22/22 _____ 1s 32ms/step - accuracy: 0.1175 - loss:
4.1676
Epoch 17/75
22/22 _____ 1s 32ms/step - accuracy: 0.1348 - loss:
4.0137
Epoch 18/75
22/22 _____ 1s 30ms/step - accuracy: 0.1521 - loss:
3.8872
Epoch 19/75
22/22 _____ 1s 31ms/step - accuracy: 0.1636 - loss:
3.7948
Epoch 20/75
22/22 _____ 1s 30ms/step - accuracy: 0.1925 - loss:
3.6393
Epoch 21/75
22/22 _____ 1s 30ms/step - accuracy: 0.1818 - loss:
```

```
3.5055
Epoch 22/75
22/22 _____ 1s 30ms/step - accuracy: 0.2220 - loss:
3.3961
Epoch 23/75
22/22 _____ 1s 32ms/step - accuracy: 0.2552 - loss:
3.2026
Epoch 24/75
22/22 _____ 1s 32ms/step - accuracy: 0.2901 - loss:
3.1204
Epoch 25/75
22/22 _____ 1s 31ms/step - accuracy: 0.3150 - loss:
2.9875
Epoch 26/75
22/22 _____ 1s 31ms/step - accuracy: 0.3488 - loss:
2.8978
Epoch 27/75
22/22 _____ 1s 32ms/step - accuracy: 0.3469 - loss:
2.8076
Epoch 28/75
22/22 _____ 1s 30ms/step - accuracy: 0.3807 - loss:
2.6228
Epoch 29/75
22/22 _____ 1s 30ms/step - accuracy: 0.4347 - loss:
2.5166
Epoch 30/75
22/22 _____ 1s 31ms/step - accuracy: 0.4638 - loss:
2.3909
Epoch 31/75
22/22 _____ 1s 30ms/step - accuracy: 0.4984 - loss:
2.2781
Epoch 32/75
22/22 _____ 1s 30ms/step - accuracy: 0.5125 - loss:
2.2011
Epoch 33/75
22/22 _____ 1s 30ms/step - accuracy: 0.5202 - loss:
2.1745
Epoch 34/75
22/22 _____ 1s 29ms/step - accuracy: 0.5583 - loss:
1.9982
Epoch 35/75
22/22 _____ 1s 30ms/step - accuracy: 0.6019 - loss:
1.9108
Epoch 36/75
22/22 _____ 1s 30ms/step - accuracy: 0.5986 - loss:
1.8796
Epoch 37/75
22/22 _____ 1s 32ms/step - accuracy: 0.6598 - loss:
1.6833
```

Epoch 38/75
22/22 ————— 1s 30ms/step - accuracy: 0.6582 - loss:
1.6649

Epoch 39/75
22/22 ————— 1s 30ms/step - accuracy: 0.7091 - loss:
1.6097

Epoch 40/75
22/22 ————— 1s 30ms/step - accuracy: 0.7106 - loss:
1.5492

Epoch 41/75
22/22 ————— 1s 30ms/step - accuracy: 0.7271 - loss:
1.4226

Epoch 42/75
22/22 ————— 1s 30ms/step - accuracy: 0.7097 - loss:
1.4146

Epoch 43/75
22/22 ————— 1s 31ms/step - accuracy: 0.7753 - loss:
1.2759

Epoch 44/75
22/22 ————— 1s 30ms/step - accuracy: 0.8041 - loss:
1.2072

Epoch 45/75
22/22 ————— 1s 30ms/step - accuracy: 0.7578 - loss:
1.2038

Epoch 46/75
22/22 ————— 1s 31ms/step - accuracy: 0.8180 - loss:
1.1046

Epoch 47/75
22/22 ————— 1s 30ms/step - accuracy: 0.8307 - loss:
1.0893

Epoch 48/75
22/22 ————— 1s 31ms/step - accuracy: 0.8597 - loss:
0.9859

Epoch 49/75
22/22 ————— 1s 30ms/step - accuracy: 0.8441 - loss:
0.9997

Epoch 50/75
22/22 ————— 1s 30ms/step - accuracy: 0.8822 - loss:
0.9152

Epoch 51/75
22/22 ————— 1s 31ms/step - accuracy: 0.8857 - loss:
0.9000

Epoch 52/75
22/22 ————— 1s 30ms/step - accuracy: 0.8673 - loss:
0.8817

Epoch 53/75
22/22 ————— 1s 30ms/step - accuracy: 0.8849 - loss:
0.8296

Epoch 54/75

```
22/22 _____ 1s 30ms/step - accuracy: 0.9004 - loss:
0.7953
Epoch 55/75
22/22 _____ 1s 30ms/step - accuracy: 0.9136 - loss:
0.7652
Epoch 56/75
22/22 _____ 1s 31ms/step - accuracy: 0.9172 - loss:
0.6975
Epoch 57/75
22/22 _____ 1s 30ms/step - accuracy: 0.9125 - loss:
0.6964
Epoch 58/75
22/22 _____ 1s 30ms/step - accuracy: 0.9337 - loss:
0.6206
Epoch 59/75
22/22 _____ 1s 31ms/step - accuracy: 0.9258 - loss:
0.6081
Epoch 60/75
22/22 _____ 1s 30ms/step - accuracy: 0.9210 - loss:
0.5870
Epoch 61/75
22/22 _____ 1s 30ms/step - accuracy: 0.9302 - loss:
0.5795
Epoch 62/75
22/22 _____ 1s 30ms/step - accuracy: 0.9188 - loss:
0.5577
Epoch 63/75
22/22 _____ 1s 30ms/step - accuracy: 0.9458 - loss:
0.4915
Epoch 64/75
22/22 _____ 1s 31ms/step - accuracy: 0.9309 - loss:
0.5446
Epoch 65/75
22/22 _____ 1s 30ms/step - accuracy: 0.9355 - loss:
0.4865
Epoch 66/75
22/22 _____ 1s 30ms/step - accuracy: 0.9159 - loss:
0.4847
Epoch 67/75
22/22 _____ 1s 31ms/step - accuracy: 0.9422 - loss:
0.4445
Epoch 68/75
22/22 _____ 1s 32ms/step - accuracy: 0.9413 - loss:
0.4037
Epoch 69/75
22/22 _____ 1s 31ms/step - accuracy: 0.9491 - loss:
0.3883
Epoch 70/75
22/22 _____ 1s 32ms/step - accuracy: 0.9440 - loss:
```



```

0.4170
Epoch 71/75
22/22 _____ 1s 32ms/step - accuracy: 0.9380 - loss:
0.3986
Epoch 72/75
22/22 _____ 1s 32ms/step - accuracy: 0.9435 - loss:
0.3714
Epoch 73/75
22/22 _____ 1s 31ms/step - accuracy: 0.9468 - loss:
0.3636
Epoch 74/75
22/22 _____ 1s 29ms/step - accuracy: 0.9500 - loss:
0.3472
Epoch 75/75
22/22 _____ 1s 30ms/step - accuracy: 0.9407 - loss:
0.3575

```

```
<keras.src.callbacks.history.History at 0x22a3d260050>
```

```

import numpy as np
import time
text = "what is the"

for i in range(10):
    # tokenize
    token_text = tokenizer.texts_to_sequences([text])[0]
    # padding
    padded_token_text = pad_sequences([token_text], maxlen=max_len,
padding='pre')
    # predict
    pos = np.argmax(model.predict(padded_token_text))

    for word,index in tokenizer.word_index.items():
        if index == pos:
            text = text + " " + word
            print(text)
            time.sleep(2)

```

```

1/1 _____ 1s 592ms/step
what is the validity
1/1 _____ 0s 46ms/step
what is the validity of
1/1 _____ 0s 51ms/step
what is the validity of monthly
1/1 _____ 0s 43ms/step
what is the validity of monthly subscription
1/1 _____ 0s 48ms/step
what is the validity of monthly subscription suppose
1/1 _____ 0s 42ms/step
what is the validity of monthly subscription suppose if

```

```
1/1 _____ 0s 40ms/step
what is the validity of monthly subscription suppose if i
1/1 _____ 0s 48ms/step
what is the validity of monthly subscription suppose if i pay
1/1 _____ 0s 50ms/step
what is the validity of monthly subscription suppose if i pay on
1/1 _____ 0s 41ms/step
what is the validity of monthly subscription suppose if i pay on 15th
```

```
model.summary()
```

```
Model: "sequential"
```

Layer (type) Param #	Output Shape
embedding (Embedding) 25,200	(32, 56, 100)
lstm (LSTM) 150,600	(32, 56, 150)
lstm_1 (LSTM) 180,600	(32, 150)
dense (Dense) 38,052	(32, 252)

```
Total params: 1,183,358 (4.51 MB)
```

```
Trainable params: 394,452 (1.50 MB)
```

```
Non-trainable params: 0 (0.00 B)
```

```
Optimizer params: 788,906 (3.01 MB)
```