

**MASTER OF COMPUTER
APPLICATION**

REQUISITION LETTER

From,
Head of the Department,
Master of Computer Applications,
JKK Munirajah College of Technology,
T.N.Palayam.

To,
The Principal,
JKK Munirajah College of Technology,
T.N.Palayam.

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program- Reg

We have planned to conduct a certificate program for I, II year Master of Computer Applications students on **"Practical Machine Learning with Tensorflow"** from **03.01.2022 to 07.01.2022** by Program Coordinator **Mrs.A.KANIMOZHI AP/MCA**. So, I request you to kindly provide permission to conduct the certificate program.

Thanking You,



Yours Truly,

Place: T.N.Palayam

Date: 21.12.2021

Permitted
Sreedh 21/12/21



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GOBI (Tk), ERODE (Dt).



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JKKMCT/CIRCULAR/DEC-2021


27/12/2021

CIRCULAR

The Department of Computer Applications is planning to organize a Certificate Program on “**Practical Machine Learning with Tensorflow**” (30 Hours) for the benefit of the students from **03.01.2022 (Monday) to 07.01.2022 (Friday)**. Students those who are willing to attend the Program can enroll their names to their class in-charges respectively on or before **31.12.2021**.


27/12/21
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Copy To,
All the HODs and Staff Members,
All the Students,
Notice Board, File


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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

PROGRAM SYLLABUS

Name of the Certificate Program : **Practical Machine Learning with Tensorflow**

Program Code : 21MCAPMLT01

Name of the Program Coordinator : Mrs.A.KANIMOZHI AP/MCA

Academic Year:2021-2022

Program Contents

Total Hours: 30

Chapter 1: Getting started with Tensorflow

- Introduction to Tensorflow
- Linear Regression in Tensorflow

Chapter 2: Overview of Machine Learning

- Process and Techniques
- Demonstration of ML concepts with Deep Playground

Chapter 3: Data Input and Preprocessing with Tensorflow and Machine Learning Model Building

- The Feature Engineering Component of TensorFlow Extended (TFX)
- Basics of Machine Learning with Tensorflow

Chapter 4: Prediction with Tensorflow

- Monitoring models using Tensorboard
- Evaluating models using Tensorboard



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Chapter 5: Advance Tensorflow and Distributed training with hardware accelerators

- Building custom models - CNNs
- Scaling up for large datasets

Prepared by:

Name: Mrs.A.Kanimozhi

Designation: AP/MCA

PROGRAM COORDINATOR

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

PROGRAM SCHEDULE

Name of the Certificate Program : **Practical Machine Learning with Tensorflow**

Program Code : **21MCAPMLT01**

Name of the Program Coordinator : **Mrs.A.Kanimozhi AP/MCA**

Program Period: 03.01.2022 to 07.01.2022

Date/ Time	9:30AM to 11:30AM (2 Hours)		11.45 AM to 12.45PM (1 Hour)		1:30 PM to 4.30 PM (3 Hours)
03-01-2022	Registration and Inauguration	BREAK	Introduction to Tensorflow	LUNCH	Getting Started with Tensorflow
04-01-2022	Overview of Machine Learning		Process and Techniques		Demonstration of ML concepts with Deep Playground
05-01-2022	Data Input in Tensor flow		Preprocessing with Tensorflow		Machine Learning Model Building
06-01-2022	Prediction with Tensorflow		Monitoring models using Tensorboard		Evaluating models using Tensorboard
07-01-2022	Advance Tensorflow		Building custom models - CNNs		Distributed training with hardware accelerators


PROGRAM COORDINATOR


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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

RESOURCE PERSON PROFILE

Title of the Programme	Practical Machine Learning with Tensorflow
Duration and Timing of the Programme	30 Hours and 9.30 AM to 4.30 PM
Name of the Resource Person	Mrs.A.Kanimozhi AP/MCA
Photo Image of the Resource Person	
E-mail	kanimozhia@jkkmct.edu.in
Mobile No:	9080683118
Designation	Assistant Professor/ MCA
Official Address	JKK Munirajah College of Technology, T.N.Palayam, Gobi (TK), Erode (Dt) -638506
Educational Qualification	B.Sc (Computer Science) MCA (Master of Computer Applications)
Experience	6.5 years of Experience as Assistant Professor
Field of Interest	Machine Learning, Big Data, IOT, MANET, Artificial Intelligence



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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
ACADEMIC YEAR 2021-2022
WILLING STUDENTS NAMELIST
CERTIFICATE PROGRAM ON PRACTICAL MACHINE LEARNING WITH TENSORFLOW

S.N O	REGISTER NUMBER	NAME	WILLINGNESS		
			YES	NO	SIGN
I YEAR					
1	731221622001	JAMUNA.V	✓		J. Jamuna
2	731221622002	JEEVITHA.M	✓		Jeevitha
3	731221622003	KIRUTHIKA.P	✓		Kiruthika
4	731221622004	MANJULA.P		✓	Manjula.p.
5	731221622005	MONISHA.S	✓		Monisha
6	731221622006	NILAVARASAN.P	✓		Nilavarasan
7	731221622007	PERINBARAJS	✓		Perinbarajs
8	731221622008	PRADEESHKUMAR.N		✓	Pradeesh
9	731221622009	SOWMIYA.R	✓		Sowmya
10	731221622010	SRUTHI.S	✓		Sruthi
11	731221622011	SWETHA.M	✓		M. Swetha
II YEAR					
12	731220622001	NAVANEETHARAN.L.N.	✓		Navaneetharan
13	731220622002	NITHYA.A	✓		Nithya
14	731220622005	THARUN VISHAL.A.K.		✓	Tharun Vishal

A. M.
PROGRAM COORDINATOR

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
ACADEMIC YEAR 2021-2022

CERTIFICATE PROGRAM ON PRACTICAL MACHINE LEARNING WITH TENSORFLOW
ENROLLED STUDENTS NAMELIST

DATE: 03.01.2022 to 07.01.2022

S.NO	REG. NO	NAME
I YEAR		
1	731221622001	JAMUNA.V
2	731221622002	JEEVITHA.M
3	731221622003	KIRUTHIKA.P
4	731221622005	MONISHA.S
5	731221622006	NILAVARASAN.P
6	731221622007	PERINBARAJ.S
7	731221622009	SOWMIYA.R
8	731221622010	SRUTHI.S
9	731221622011	SWETHA.M
II YEAR		
10	731220622001	NAVANEETHARAN.L.N.
11	731220622002	NITHYA.A


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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS ACADEMIC YEAR 2021-2022

CERTIFICATE PROGRAM ON PRACTICAL MACHINE LEARNING WITH TENSORFLOW ATTENDANCE SHEET

S.NO	NAME OF THE STUDENTS	ATTENDANCE OF THE PARTICIPANTS									
		03.01.22		04.01.22		05.01.22		06.01.22		07.01.22	
		F.N.	A.N.	F.N.	A.N.	F.N.	A.N.	F.N.	A.N.	F.N.	A.N.
I YEAR											
1	JAMUNA.V	/	/	/	/	/	/	/	/	/	/
2	JEEVITHA.M	/	/	/	/	/	/	a	a	/	/
3	KIRUTHIKA.P	/	/	/	/	/	/	/	/	/	/
4	MONISHA.S	/	/	a	a	/	/	/	/	/	/
5	NILAVARASAN.P	/	/	/	/	/	/	/	/	/	/
6	PERINBARAJS	/	/	/	/	/	/	/	/	/	/
7	SOWMIYA.R	/	/	/	/	/	/	/	/	/	/
8	SRUTHI.S	/	/	/	/	/	/	/	/	a	a
9	SWETHA.M	/	/	/	/	/	/	/	/	/	/
II YEAR											
10	NAVANEETHARAN.L.N.	/	/	/	/	/	/	/	/	a	a
11	NITHYA.A	/	/	/	/	/	/	/	/	/	/
TOTAL NO OF STUDENTS PRESENT		11	11	10	10	11	11	10	10	9	9
TOTAL NO OF STUDENTS ABSENT		-	-	1	1	-	-	1	1	2	2
SIGNATURE OF THE PROGRAM COORDINATOR											
SIGNATURE OF THE HOD											

PROGRAM COORDINATOR

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS ACADEMIC YEAR 2021-2022

PRACTICAL MACHINE LEARNING WITH TENSOR FLOW

ASSESSMENT

ANSWER ALL QUESTIONS (30*1=30 MARKS)

- 1. Identify the lifeless unit in a neural community?**
 1. A unit which does now not reply absolutely to any of the schooling styles
 2. The unit which produces the most important sum-squared mistakes
 3. A unit which doesn't replace throughout training by means of any of its neighbor
 4. None of these
- 2. The nodes in the i/p layer is 10 and that in the hidden layer is 5 what will be the max. connections from the i/p layer to the hidden layer are?**
 1. Sixty
 2. Fifty
 3. Twenty
 4. None
- 3. The network that involves feedback links from o/p to i/p and hidden layers is called as ____**
 1. Multi layered perception
 2. Self organizing maps
 3. Recurrent neural network
 4. All of the above
- 4. Feature Columns, handle a variety of input data types without _____ to the model.**
 1. documentation
 2. Changes
 3. user help
 4. None of these
- 5. From the following choices where can deep learning be used?**
 1. Protein structure prediction
 2. Prediction of chemical reactions
 3. Detection of exotic particles
 4. All of the above
- 6. What if we use a gaining knowledge of fee that's too huge?**
 1. Network will converge
 2. Network will now not converge
 3. None of above
 4. All of above



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7. What do you by Tensor Board?

1. Tensor Board is a metric tool which compares model in terms of their accuracy
2. Tensor Board does not exist
3. Tensor Board provides the visualization and tooling needed for machine learning experimentation
4. Tensor Board is used to rank the best performing Tensors

8. Why do we use TPU?

1. For debugging purpose only
2. To accelerate the development
3. To visualize model
4. TPU does not exist

9. Which of the following product isn't built using TensorFlow?

1. Nsynth
2. Pandas
3. Hand Writing Recognition
4. Teachable Machine

10. Which of following functions shouldn't be used at the output layer to classify an image?

1. ReLU
2. tanh
3. sigmoid
4. None of above

11. Which of the following dashboards in TensorFlow?

1. Histogram Dashboard
2. Distributer Dashboard
3. Scalar Dashboard
4. All of the above

12. Which of the subsequent declaration(s) effectively represents an actual neuron in TensorFlow?

1. A neuron has a single input, however, more than one outputs
2. A neuron has a single enter and a single output best
3. A neuron has multiple inputs but a single output only
4. All of above

13. What is the full form of XLA in TensorFlow?

1. Xtreme Linear Algebra
2. Accelerated Linear Algebra
3. Unknown Linear Algebra
4. X Linear Algebra

14. Who discovered tensors?

1. Gregorio Ricci-Curbastro
2. Gargi-Curbastro
3. All of above
4. None of above



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15. *What of the following is accurate in regard to back propagation algorithm?*

1. No feedback at any stage
2. Also known as generalized delta rule
3. The error is propagated backwards to determine weight updates
4. All of the above

16. *What is the full form of TPU?*

1. Test processing unit
2. Truer processing unit
3. Two processing unit
4. Tensor processing unit

17. *In a neural network, which of the subsequent strategies is used to deal with over fitting in TensorFlow?*

1. Regularization
2. Batch Normalization
3. Dropout
4. All of the above

18. *TensorFlow is developed by _____*

1. Microsoft Team
2. Google Brain team
3. IBM Team
4. None of the above

19. *What are the general limitations of back propagation rule?*

1. No feedback at any stage
2. Scaling
3. Retarded convergence
4. All of the above

20. *Identify the type of Tensors?*

1. Constant Tensor
2. Variable Tensor
3. Place Holder Tensor.
4. All of the above

21. *TensorFlow was initially released in*

1. November 8, 2015
2. November 9, 2015
3. October 9, 2015
4. November 9, 2016

22. *What is the Advantage of TensorFlow?*

1. It has a unique approach that allows monitoring the training progress of our models and tracking several metrics.
2. It is designed to use various back end software (GPUs, ASIC), etc. and also highly parallel
3. It has excellent community support.
4. All of the above



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23. *Tensorflow supports which of the following platforms?*

1. macOS
2. Linux
3. Windows & Android
4. All of the above

24. *There are _____ main tensor type you can create in TensorFlow.*

1. 3
2. 4
3. 2
4. 1

25. *Which of the following techniques perform comparable operations as the dropout in a neural community in TensorFlow?*

1. Boosting
2. Bagging
3. Stacking
4. None of these

26. *Tensorflow supports which python version?*

1. Python 3.3
2. Python 3.0
3. Python 3.6–3.9
4. Python 3

27. *TensorFlow is a free and open-source _____ based library for machine learning*

1. Java
2. Python
3. Angular
4. PHP

28. *Tensorflow is a symbolic math library based on _____*

1. Differentiable programming
2. Data flow
3. None of the above
4. Both Data flow & Differentiable programming

29. *Can TensorFlow be deployed in container software?*

1. False
2. True

30. *Can a neural network model the characteristic ($y=1/x$) in TensorFlow?*

1. True
2. False



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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
ACADEMIC YEAR 2021-2022

CERTIFICATE PROGRAM ON " PRACTICAL MACHINE LEARNING WITH TENSORFLOW "

STUDENTS MARKLIST

DATE: 03.01.2021 to 07.01.2022

S.NO	REG. NO	NAME	MARKS
I YEAR			
1	731221622001	JAMUNA.V	78
2	731221622002	JEEVITHA.M	80
3	731221622003	KIRUTHIKA.P	74
4	731221622005	MONISHA.S	85
5	731221622006	NILAVARASAN.P	79
6	731221622007	PERINBARAJS	88
7	731221622009	SOWMIYA.R	89
8	731221622010	SRUTHI.S	65
9	731221622011	SWETHA.M	58
II YEAR			
10	731220622001	NAVANEETHARAN.L.N.	80
11	731220622002	NITHYA.A	90

Note: The students those who have secured above 50 Marks and above are consider eligible for program completion.


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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
ACADEMIC YEAR 2021-2022

SUMMARY/ OUTCOME REPORT

Name of the Certificate Program: **PRACTICAL MACHINE LEARNING WITH TENSORFLOW**

Program Code : 21MCAPMLT01

Name of the Program Coordinator :Mrs. A.Kanimozhi

Number of Students Enrolled : 11 Duration:30 Hours

Number of Students Completed : 11

I hereby affirm that the entire Program contents in the Certificate Program “PRACTICAL MACHINE LEARNING WITH TENSORFLOW” listed in the Syllabus have been actually learned by the students as the part of the prescribed co-curricular activities through Certificate Program.

I confirmed that the Certificate Program title as Practical Machine Learning With Tensorflow Work Bench was done by me in the beginning of this semester and Program delivery with attendance of the students were recorded.

I confirmed that all registered students for this Certificate Program were actively attended and learned well throughout the duration of this Program. And all students were successfully completed and eligible to receive the completion certificate.

OUTCOME: Students shall be able to gain the knowledge in

- Fundamentals of machine learning (and introducing the benefits of Tensorflow)
- How to identify a problem, select the right model, and optimize it to get the best desired outcome: insights into data.
- TensorFlow 2.0 for deep learning with neural networks
- Deep learning and image-classification examples, and time series predictive model examples

Name : Mrs.A.Kanimozhi

Designation: Assistant Professor/MCA


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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. JAMUNA.V of

I- MCA has successfully


Completed in the Certificate Program titled "**Practical Machine Learning with Tensorflow**" Organised by Department of Master of Computer Applications.

Duration: **03.01.2022 to 07.01.2022**


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This is to certify that Mr. / Ms. JEEVITHA.M of

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Duration: **03.01.2022 to 07.01.2022**


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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. KIRUTHIKA.P of

I- MCA has successfully


Completed in the Certificate Program titled "**Practical Machine Learning with Tensorflow**" Organised by Department of Master of Computer Applications.

Duration: 03.01.2022 to 07.01.2022


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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. **MONISHA S** of

..... **I- MCA** has successfully

Completed in the Certificate Program titled "**Practical Machine Learning with Tensorflow**" Organised by Department of Master of Computer Applications.

Duration : **03.01.2022 to 07.01.2022**


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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. **NILAVARASAN,P** of

..... **I- MCA** has successfully


Completed in the Certificate Program titled "**Practical Machine Learning with Tensorflow**" Organised by Department of Master of Computer Applications.

Duration: **03.01.2022 to 07.01.2022**


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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. PERINBARAJ,S of

I- MCA has successfully

Completed in the Certificate Program titled **"Practical Machine Learning with Tensorflow"** Organised by Department of Master of Computer Applications.

Duration : 03.01.2022 to 07.01.2022


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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. SOWMIYA.R of

I- MCA has successfully

Completed in the Certificate Program titled "Practical Machine Learning with Tensorflow" Organised by Department of Master of Computer Applications.

Duration : 03.01.2022 to 07.01.2022


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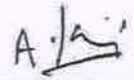
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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. **SRUTHI.S** of
I- MCA has successfully

Completed In the Certificate Program titled **"Practical Machine Learning with
Tensorflow"** Organised by Department of Master of Computer Applications.

Duration: **03.01.2022 to 07.01.2022**


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