Shobhavana Campus, Mijar – 574225, Moodbidri. Dakshina Kannada Karnataka, India.



Department of Computer Science and Engineering

#### **CERTIFICATION COURSE**

on

"MACHINE LEARNING USING PYTHON PROGRAMMING"

**ACADEMIC YEAR** 

2018-19

Shobhavana Campus, Mijar, Moodbidri – 574 225 Phone: 08258-262725 Fax: 08258-262726

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ALET | CC | CSE | 2018-19 | 01

Date: 18 | 08 | 2018

Place: AIET, Moodbidri.

#### APPROVAL LETTER

To,

The Principal, AIET, Moodbidri

Respected Sir,

Sub: - Approval for Organizing the Students Certification/Training Program on "Machine Learning with Python Programming"-Reg.

With reference to the subject cited above, I would like to bring to your kind notice that, the Department is planning to host a Student Training Program/ certification course on "Machine Learning with Python Programming" from "27th August 2018" to 01st September 2018".

Kindly consider the above request and approve the same for further proceedings.

Thanking you Sir.

Coordinator:

Mr. Harish Kunder

Head of the Department:

Dr. Manjunath Kotari

Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODB!DRI - 574 225

Chro's Institute of Engg. & Technology, Chilar, MOODBIDRI - 574 225, D.K.



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Dated 24/08/2018

#### **CIRCULAR**

All the students are hereby informed that there is a certification course on Machine Learning with Python Programming in assocation with Dlithe Software Bangalore. All are hereby informed to attend and actively participate in training Session to be held during 27<sup>th</sup> August 2018- 01<sup>st</sup> September 2018 in Internet Lab.

(HQD)

Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

#### PROGRAMME SCHEDULE

- **❖** Invocation
- **❖** Welcome Speech
- Introducing the Chief Guest
- Honoring the Chief Guest
- Inauguration
- Presidential Speech
- ❖ Vote of Thanks

#### INVITATION

#### ALVA'S INSTITUTE OF ENGINEERING AND

#### **TECHNOLOGY, MOODBIDRI**

#### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Cordially invites you to the

**Inauguration of Certification Program** 

On

"Machine Learning with Python Programming"

**Resource Person:** 

Mr. Arun Rajpurohit

Dlithe Sofwares, Banglore

**Guest of Honor:** 

Mr. Vivek Alva

**Managing Trustee** 

**President:** 

Dr. Peter Fernandes

Principal, AIET, Moodbidri.

**Coordinator** 

**Head of the Department** 

Mr. Harish Kunder

Mr. Manjunath Kotari

**Associate Professor** 

Professor and Head, Dept. of CSE

Venue: Seminar Hall, First Floor, AIET Main Block@9.00AM

#### ABOUT VTU, BELAGAVI

Visvesvaraya Technological University is a collegiate public state university in Karnataka State, India. It was established by the Government of Karnataka. The university is named after M. Visvesvaraya from Karnataka, the only engineer to be awarded a "Bharat Ratna", the highest civilian award in India. Inana Sangama, Belagavi is the headquarters of VTU. Additionally, the university has three regional centers in Bangalore, Gulbarga and Mysore. VTU is one of the largest universities in India with 212 colleges affiliated to it with an intake capacity of over 467,100 undergraduate students and 12,666 postgraduate students. The university encompasses technical and management fields which offer 30 undergraduate and 71 postgraduate courses. It has around 1800 PhD candidates. VTU has 13 QIP centers and 17 extension centers in its affiliated colleges offering postgraduate courses. It has around 2,305 departments recognized as research centers which are spread across its affiliated institutions in cities of Karnataka.

#### AIET, MOODBIDRI

Alva's Education Foundation (AEF) established in 1995 with the vision of our Chairman Dr. M. Mohan Alva has succeeded in making Moodbidri, an Educational hub in the South Canara Region, with more than 25000 students pursuing various courses ranging from primary school to post-graduate courses in social sciences, pure sciences, engineering and management. There are 21 institutions functioning under the Alva's Education Foundation.

Alva's Institute of Engineering and Technology, Moodbidri is a Premier Engineering Institute of Alva's Education Foundation, established in the year 2008. The college is certified to the ISO 9001: 2008 standards. The institute offers top quality education in five under graduate programs in Engineering-Computer Science, Civil, Electronics & Communications, Information Science, and Mechanical Engineering-Three Post Graduate programs- Master of Technology in Thermal Power Engineering, Computer Science & Engineering, VLSI Design Embedded System and Master of Business Administration.

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department was started in the year 2008 with an intake of 60 for the undergraduate program. The program has become popular among students due to the achievements and rigor. The department has well-equipped classrooms and computer laboratories with high-end systems as per the AICTE norms. The department is affiliated to Visvesvaraya Technological University (VTU).

The Department carries out various Industry-Institute interaction events for the benefit of the students. The Department conducts various Seminars and Technical talks in collaboration with various Companies also. Faculty members are of many Professional societies like IEEE, ISTE, etc. With an objective of developing core competence in the respective subject specializations and for learning newer technologies, the Department has formed the various Technical divisions.

#### **ABOUT MACHINE LEARNING**

Machine learning (ML) is the scientific study of algorithms and statistical models that computer systems use to perform a specific task without using explicit instructions, relying on patterns and inference instead. It is seen as a subset of artificial intelligence. Machine learning algorithms build a mathematical model based on sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to perform the task Machine learning algorithms are used in a wide variety of applications, such as email filtering and computer vision, where it is difficult or infeasible to develop a conventional algorithm for effectively performing the task.

Continuing with the effort of training the members, a Student Training Program is organized on "Machine Learning" at AIET Moodbidri by the Department of Computer Science and Engineering.

As per the current trend, due to constant change and development in digitization, our lives are improving in all areas. To deliver a quality product, we need to have information on recent industrial trends skills in the Software Development Process.

#### **COURSE CONTENT**

- 1. Introduction to Machine Learning.
- 2. Introduction to Python Programming.
- 3. Various Machine Learning algorithms.
- 4. Classification Techniques
- 5. Clustering Techniques.
- Concepts of ANN.
- Basic idea of NLP.
- Machine Learning concepts with Tanserflow.

#### **RESOURSE PERSON**

#### Mr. Arun Rajpurohit

Dlithe Sofwares, Banglore

#### PROGRAM SCHEDULE 27- AUGUST -2018

08:30 am to 09:30 am
09:30 am to 10:00 am
10:00 am to 11:00 am
11:00 am to 11:15 am
11:15 am to 01:00 pm
01:00 pm to 02:00 pm
02:00 pm to 05:00 pm

	28- AUGUST -2018
Session 3:	09.00 am to 11:00 am
Tea Break:	11.00 am to 11.20 am
Session 4:	11.20 am to 01.00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 5:	02:00 pm to 05:00 pm
	29- AUGUST -2018

Session 6:	09.00 am to 11:00 am
Tea Break:	11.00 am to 11.20 am
Session 7:	11.20 am to 01.00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 8:	02:00 pm to 05:00 pm

3	0- AUGUST -2018
Session 9:	09.00 am to 11:00 am
Tea Break:	11.00 am to 11.20 am
Session 10:	11.20 am to 01.00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 11:	02:00 pm to 05:00 pm
3	1- AUGUST -2018
Session 12:	09.00 am to 11:00 am
Геа Break:	11.00 am to 11.20 am
Session 13:	11.20 am to 01.00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 14:	02:00 pm to 05:00 pm
01-	SEPTEMBER -2018
Session 15:	09.00 am to 11:00 am
Tea Break:	11.00 am to 11.20 am
Session 16:	11.20 am to 01.00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 17:	02:00 pm to 04:30 pm
Valedictory:	04:30 pm to 05:00 pm

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Registered Students List for Machine Learning with Python Programming Certification

USN	NAME
4al14cs040	Shwetha M.G.
4al15cs008	Anand R
4al15cs058	Md. Afnanaman
4al15cs082	Sai Charan R
4al16cs003	Adarsha N
4al16cs004	Ainab
4al16cs400	Chandan B
4al16cs010	Amogha U
4al16cs013	Anix Jugal D'cunha
4al16cs017	Apoorva U
4al16cs018	Arunakumari V
4al16cs020	Banish M G
4al16cs024	Chaitanyatejas
4al16cs032	Dhanush Shetty
4al16cs035	Gauthamprabhu
4al16cs036	Hanishree M S
4al16cs038	Harshitha M
4al16cs040	Imran Khan
4al16cs041	Jayanth S V
4al16cs044	Karthik M R
4al16cs045	Katira Krishna Jitendra
4al16cs053	Mithun Kumar D
	4al14cs040 4al15cs008 4al15cs082 4al16cs004 4al16cs010 4al16cs013 4al16cs017 4al16cs018 4al16cs020 4al16cs024 4al16cs032 4al16cs035 4al16cs035 4al16cs036 4al16cs040 4al16cs041 4al16cs041

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# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

23.	4al16cs058	Nayan P Joshi
24.	4al16cs061	Pallaviirannasutar
25.	4al16cs062	Pavan Kamath
26.	4al16cs065	Poojashree
27.	4al16cs066	Pragathi H D
28.	4al16cs068	Prasanna
29.	4al16cs069	Prashanth S
30.	4al16cs072	Rakesh M Kotian
31.	4al16cs074	Rakshithgowda N
32.	4al16cs075	Rakshithumeshrai
33.	4al16cs076	Ravi K R
34.	4al16cs079	S K Rahul
35.	4al16cs080	S Suhas Prasad Shetty
36.	4al16cs081	Safnaaz
37.	4al16cs082	Samrinbanu
38.	4al16cs084	Sannidhi P
39.	4al16cs086	Sathwik R Gutti
40.	4al16cs088	Shamanth M R
41.	4al16cs089	Shashank V Rao
42.	4al16cs090	Shashikantchavan
43.	4al16cs093	Shetty Rasik
44.	4al16cs094	Shetty Sanath
45.	4al16cs097	Shetty Veekshith
46.	4al16cs106	Sujay
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

47.	4al16cs109	Suraj S Kashyap
48.	4al16cs112	Syed Rabeyaaamir
49.	4al16cs115	Vaibhavi
50.	4al16cs119	Venkatachandrashekhar
51.	4al16cs126	Parikshithadiga B
52.	4al16cs129	Jyothi Lakshmi C S
53.	4al16cs131	Manish B. Shriyan
54.	4al17cs400	Bharath S
55.	4al15cs002	Adarsh M S
56.	4al15cs009	Ankith
57.	4al15cs023	Chaithra Gajandimath
58.	4al15cs037	H Akshay Kedlaya
59.	4al15cs051	Kumaraswamy V S
60.	4al15cs055	Megha
61.	4al15cs070	Prathiksha P Rai
62.	4al15cs078	Rakshitha M
63.	4al15cs095	Sumith Kumar S K
64.	4al15cs099	T S Kusumasri
65.	4al15cs102	Vaibhavi Vitthal Kulkarni
66.	4al15cs104	Varsha S
67.	4al15cs107	Vishnu PS
68.	4al15cs113	Shetty Niketha S
69.	4al15cs114	Shetty Aishwarya S
70.	4al15cs014	Arpitha S
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72.	4al15cs016	Ashritha Jain R
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75.	4al15cs034	Ganesh Shrikant Palekar
76.	4al15cs040	Hema R
77.	4al15cs042	Jagadish Rathi
78.	4al15cs048	Kalavara Deekshith Raj
79.	4al15cs054	Madhukara
80.	4al15cs065	Pooja K
81.	4al15cs068	Poorna Shetty
82.	4al15cs087	Shraddha B Shetty

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# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# Attendance List Of Students for Machine Learning with Python Programming Certification

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **Quiz on Machine Learning Course**

#### 1. What is Machine learning?

- A. The autonomous acquisition of knowledge through the use of computer programs
- B. The autonomous acquisition of knowledge through the use of manual programs
- C. The selective acquisition of knowledge through the use of computer programs
- D. The selective acquisition of knowledge through the use of manual programs.
- 2. Which of the factors affect the performance of learner system does not include?
  - A. Representation scheme used
  - B. Training scenario
  - C. Type of feedback
  - D. Good data structures
- 3) Which of the following is an example of a deterministic algorithm?
  - A. PCA
  - B. K-Means
  - C. None of the above

- 4. Which of the following is a widely used and effective machine learning algorithm based on the idea of bagging?
  - A. Decision Tree
  - B. Regression
  - C. Classification
  - D. Random Forest
- 5. The most widely used metrics and tools to assess a classification model are:
  - A. Confusion matrix
  - B. Cost-sensitive accuracy
  - C. Area under the ROC curve
  - D. All of the above
- 6. Which of the following is a disadvantage of decision trees?
  - A. Factor analysis
  - B. Decision trees are robust to outliers
  - C. Decision trees are prone to be overfit
  - D. None of the above



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## Quiz on Machine Learning Course

- 7. Which of the following is true about Naive Bayes?
  - A. Assumes that all the features in a dataset are equally important
  - B. Assumes that all the features in a dataset are independent
  - C. Both A and B
  - D. None of the above options
- 8. How can you prevent a clustering algorithm from getting stuck in bad local optima?
  - A. Set the same seed value for each run
  - B. Use multiple random initializations
  - C. Both A and B
  - D. None of the above
- 9. Suppose you have trained a logistic regression classifier and it outputs a new example x with a prediction ho(x) = 0.2. This means
  - A. Our estimate for P(y=1 | x)
  - B. Our estimate for  $P(y=0 \mid x)$
  - C. Our estimate for P(y=1 | x)
  - Our estimate for  $P(y=0 \mid x)$

- 10. What is the purpose of performing cross-validation?
  - A. To assess the predictive performance of the models
  - B. To judge how the trained model performs outside the sample on test data
  - C. Both A and B
- 11. For the one-parameter model, mean-Square error (MSE) is defined as follows: 1 2N PN n=1(yn  $-\,\beta0)$  2 . We have a half term in the front because,
  - A. Scaling MSE by half makes gradient descent converge faster.
  - B. Presence of half makes it easy to do grid search.
  - C. It does not matter whether half is there or not.
  - D. None of the above
- 12. Let us say that we have computed the gradient of our cost function and stored it in a vector g. What is the cost of one gradient descent update given the gradient?
  - A. O(D)
  - B. O(N)
  - C. O(ND)
  - D. O(ND2)



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#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **Quiz on Machine Learning Course**

- 13. Computational complexity of Gradient descent is,
  - A. Linear in D
  - B. Linear in N
  - C. Polynomial in D
  - D. Dependent on the number of iterations
- 14. K-fold cross-validation is
  - A. Linear in K
  - B. Quadratic in K
  - C. Cubic in K
  - D. Exponential in K
- 15. What is pca.components in Sklearn?
  - A. Set of all eigen vectors for the projection space
  - B. Matrix of principal components
  - C. Result of the multiplication matrix
  - D. None of the above options

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#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

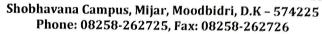
#### FEEDBACK FORM

Students Training Program On

## "Machine Learning"

For the following areas, please indicate your rating from 1 to 5: 1=strongly Disagree 2=Disagree 3=neither agree nor disagree 4=Agree 5=strongly Agree

Name Sem & Sec								
SN	Topics			1	2	3	4	5
214	1 opics			_		ب		ب
A.	Content							
1	Understood the basics concepts of Machine Learning.							
2	Understood the concepts of Python Programming							
3	Understood the various Classification and Clustering Techniques.							
4	Able to implement the concepts of machine learning.							
5	Able to design Solution to the given problem using Python Programming.							
В	Presentation							
6	Resource Person knowledge							
7	Resource Person presentation style							
8	Resource covered material clearly							
9	Resource Person responded well to questions							
10	Resource Person facilitated interactions among participants well							
C. How could this workshop be improved?								
D. Any other comments or suggestions?								
E. Overall, how would you rate this workshop?								
	Poor		Good					
	Neither Good Nor Poor	Excellent						



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **REPORT ON**

## Machine Learning using Python Programming

Department of CSE organized Certification Program on "Machine Learning using Python Programming". The Certification Programme was held during 27th August 2018 to 1st September,2018. The inauguration of programme was held on 27th Sept, 2018 at Engineering Seminar Hall. This Certification programme was held in association with Dlithe Software, Bangalore. Mr. Arun Rajpurohit and Mr. N.Sridhar Murthy Dlithe Software were the resource persons of the Certification Programme. About 82 CSE students were participated in this handson training session of Machine learning using Python



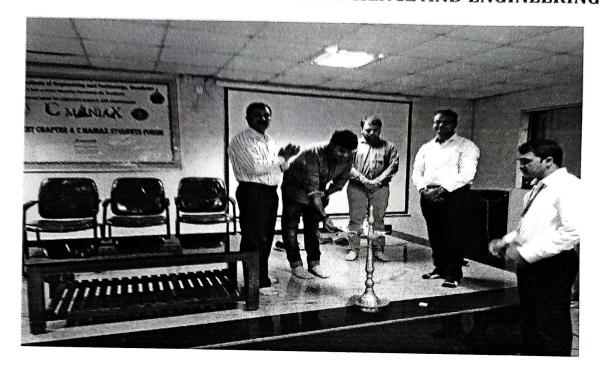
Coordinator

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Dlithe have assigned the mini projects to the students to practice Python programming, machine learning during their 7th semester. This will help them to keep them abrupt with technology. Students will also practice agile way of working. Students have learnt using cloud code repositories such as "GIT HUB" and they will use it during project execution.

Dlithe will engage students on fortnightly basis and do on premise review to check the progress. Students are also appraised with Internship report which they must follow and update regularly based on project progress.

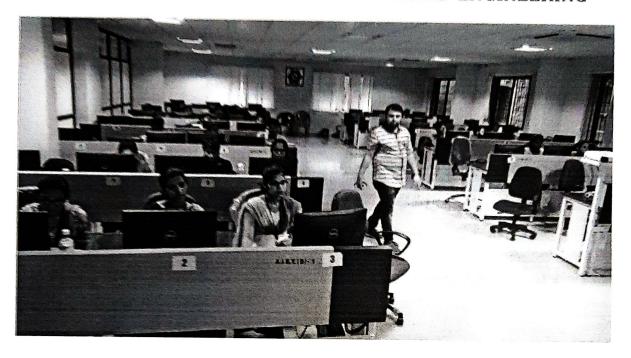
Coordinator

HOD

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The projects belong to the following area: Banking & Finance, Retail, Entertainment / Social Media, Academics, Agriculture

Objective of these project executions is to build application that can increase customer experience and optimize operational excellence.

The following problems were distributed to the students by the resource person and students solved the problems successfully in the given time interval.

SL#	Problem statement	Batch	Participants	Remarks		
1	Postal department in India plays an important role in letter communication. In the digital world, we still see many letters address is hand written and processing, sorting takes more	Batch 1	USN: Spoc 4AL15CS113 NIKITHA	The solution can be extended to all courier services companies. Also explore other applicability of text/image processing		

Coordinator

HOD

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

	time. Department would like to			
	have solution for faster sorting,			
	processing of letters.			
2	Police department and	Batch2	USN: Spoc	Usually the camera are
	Intelligence bureau's always		4AL15CS051	installed and images are
	find it difficult to trace thieves,		Kumarswamy	stored. Can you make use
	terrorists, rowdy sheeters since			of this data set and build
	they change their appearance			AI platform?
	and freely roam around.			
	Department would like to nab			
	them using an intelligent			
	system			
3	AIET website is awesome.	Batch 3	USN: Spoc	Use text and voice
	However, a BOT would add		4AL15CS048	datasets
	value to increase customer			
	experience and will result into			
	operational excellence. Can			
	you build a BOT for this?			
4	Bank is experiencing a huge	Batch4	USN:	Use sound decibel devise,
	crowd during festival times.			integrate with Python
	Bank manager is confused to			programming to Analyze
3	take any decisions as the			the sound patterns and
	employees are distributed to			provide a decision-making
;	serve customers with a defined			solution
	plan. Can you build a platform			
	to solve this problem?			
5	Banks, Financial Institutions,	Batch 5	USN: Spoc	The solution can also be
	Insurance companies always		4AL15CS022	useful for fraud

Coordinator

Arry

H. O. D.

of Computer Science & Engineering Aiva's Institute of Engg. & Technology

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# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

	find it difficult when It			
	find it difficult when it comes		Chaltra	prevention
	to cheque processing. The			
	difficult part is to match the			
	signature and often cheques			
	gets rejected. On the other side			
	customer experiencing it hard			
	about the returns. Can you			
	build a platform with Al to			
	match the text with nearest set?			
6	A major retail vendor is	Batch 6	USN: Spoc	This can be applied to
	introduced many new brands;		4AL15CS055	many industry segments
	however, he is confused about		Megha	, and a second
	the future of these brands and			
	modification needed? Can you			
	analyze the companies twitter			
	tweets or feeds and help them			
	to give some decision?			
7	AIET can be benefitted more if	Batch 7	USN: Spoc	
	ALEXA can be integrated with		4AL15CS040/104	
	college infrastructure and		Hema R, Varsha	
	make it functional to use it		S	
	during inaugural functions like			
	sports, tech, annual etc.			

Pre-Final Year: Below are the assignment to practice during their 5th & 6th Semester

✓ Make a web application to predict the customer eligibility for a loan by analyzing the
previous data

Coordinator

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- ✓ Implement the basic idea of a self-driving car using Open CV and Neural networks
- ✓ Create a web tool to predict the stock market by analyzing previous data
- ✓ Design a chat application to give suggestion by analyzing the user previous messages
- ✓ Create a home security system by analyzing the patterns of a person's movement in home using OpenCV or sensors
- ✓ Build an application to predict diabetics by analyzing the test report of a patient
- ✓ Develop a system to unlock the door by using facial recognition and facial expression recognition

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#### Department of Computer Science & Engineering

#### Summary Report of Add-on / Certificate program with its Outcomes

Academic Year: 2018-2019 Duration: 27<sup>th</sup> August 2018 to 1<sup>st</sup> September, 2018

Title of the Course: Machine Learning using Python Programming

Resource Person: Mr. Arun Rajpurohit and Mr. N.Sridhar Murthy, Dlithe Software, Bangalore.

Department of CSE organized Certification Program on "Machine Learning using Python Programming". The Certification Programme was held during 27<sup>th</sup> August 2018 to 1<sup>st</sup> September, 2018. This Certification programme was held in association with Dlithe Software, Bangalore. Mr. Arun Rajpurohit and Mr. N.Sridhar Murthy Dlithe Software were the resource persons of the Certification Programme.

82 students of CSE Department were benefitted from this course and were able to

- Develop an appreciation for what is involved in Learning models from data
- Understand a wide variety of learning algorithms
- Understand how to evaluate models generated from data
- Apply the algorithms to a real problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models

HODH. O. D.

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GST No. 29AAPTDG371E1ZG

## To whomsoever concerned

This is to certify that Pavan Kamath bearing 4AL16CS062 has successfully undergone the workshop on "Machine Learning Using Python Programming" conducted by Dlithe, Bengaluru in association with Department of Computer Science and Engineering, Alva's Institute of Engineering & Technology - Moodbidri, from 27th August 2018 to 1st September 2018

Mr. Arun V Rajpurohit CEO & Founder, Dlithe

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