VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

PMCA507L - MACHINE LEARNING

WINTER 2023-24

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School of Computer Science Engineering and Information Systems

Vellore Institute of Technology - Vellore

COURSE OBJECTIVES:

1. To comprehend the concept of supervised and unsupervised learning techniques.
2. To differentiate regression, classification and clustering techniques and to implement their algorithms.
3. To analyze the performance of various machine learning techniques and to select appropriate features for training machine learning algorithms.

EXPECTED COURSE OUTCOME:

1. Recognize the characteristics of machine learning that makes it useful to solve real-world problems
2. Provide solution for classification, regression and clustering approaches in real- world applications
3. Gain knowledge to combine machine learning models to achieve better results
4. Realize methods to reduce the dimension of the dataset used in machine learning algorithms

MARK CONFIGURATION

As.No.	Assessment Title	Question Upload	Answer Upload	Due Date	Activity Date	Max. Mark	Weightage %
1	Digital Assignment - Digital Assignment - I	Mandatory	Mandatory	26-Apr-2024	-	10	10
2	QUIZ - Quiz - I	Not Applicable	Not Applicable	-	-	10	10
3	QUIZ - Quiz - II	Not Applicable	Not Applicable	-	-	10	10
4	CAT - Continuous Assessment Test - I	Not Applicable	Not Applicable	-	-	50	15
5	CAT - Continuous Assessment Test - II	Not Applicable	Not Applicable	-	-	50	15
6	FAT - Final Assessment Test	Currently info not available	Currently info not available	-	-	100	40
						Total Weightage Mark	100

TENTATIVE ASSESSMENT PLAN

- Quiz -1: Modules 1, 2 and 3
- Quiz -2: Modules 4, 5 and 6
- CAT -1: Modules 1, 2 and 3
- CAT -2: Modules 4 and 5
- FAT: All Modules

DIGITAL ASSIGNMENT (ANY ONE)

- **Course -1 (Coursera):**

Machine Learning with Python

(https://www.coursera.org/learn/machine-learning-with-python)

- **Course -2: (Congative Class):**

Machine Learning with Python

(https://cognitiveclass.ai/courses/machine-learning-with-python)

SAMPLE CERTIFICATES

IBM

COURSE CERTIFICATE

Apr 16, 2021

[redacted]

has successfully completed

Machine Learning with Python

an online non-credit course authorized by IBM and offered through Coursera

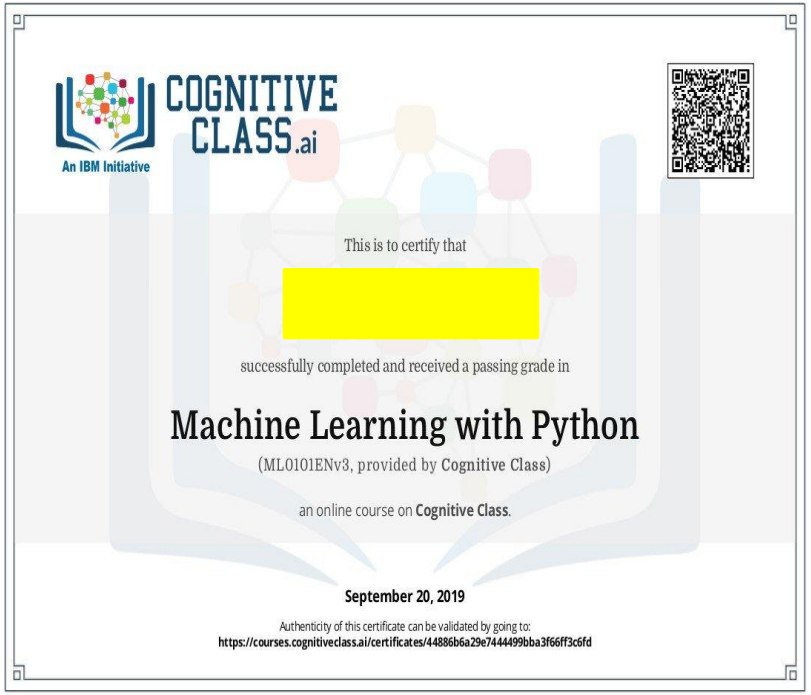
coursera

Saeed Aghabozorgi
Sr. Data Scientist
IBM

Joseph Santarcangelo
Senior Data Scientist
IBM

Verify at coursera.org/verify/WEXHR8TFTCB9

Coursera has confirmed the identity of this individual and their participation in the course.



COGNITIVE CLASS.ai

An IBM Initiative

This is to certify that

[redacted]

successfully completed and received a passing grade in

Machine Learning with Python

(ML0101ENv3, provided by Cognitive Class)

an online course on Cognitive Class.

September 20, 2019

Authenticity of this certificate can be validated by going to:
https://courses.cognitiveclass.ai/certificates/44886b6a29e7444499bba3f66ff3c6fd