29th Jan'23 overview



29th Jan Live Class Overview

Module 06

30th Jan'23 python basics



30th Jan Live Class Python Basics

Module 07

31st Jan'23 list, tuple and set



31st Jan Live Class List , Tuple And Set

Module 08

1st Feb'23 dict, conditional, loop



1st Feb Live Class Dict, Conditional, Loop

Module 09

2nd Feb'23 For Loop Practice



For Loop Practice



31st Jan Quiz-2



Python Assignment

Module 10

3rd Feb'23 While loop, Comprehension & Function



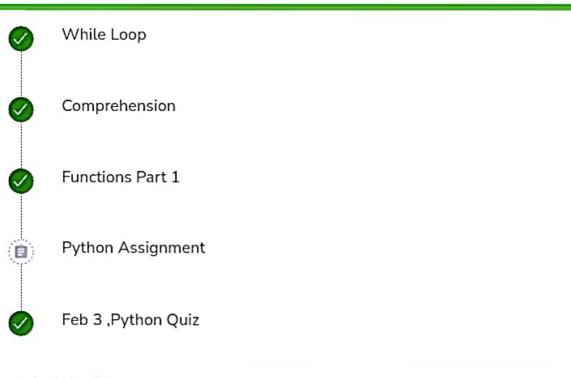
While Loop



Comprehension

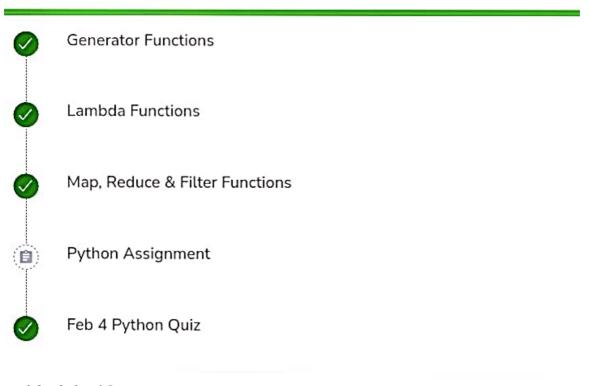


Functions Part 1



Module 11

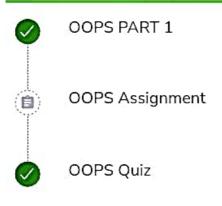
4th Feb'23 Functions



Module 12 5th Feb'23 OOPS

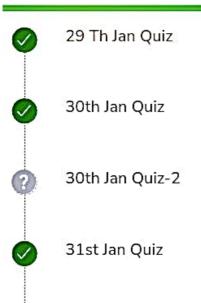


Module 12 5th Feb'23 OOPS



Module 13

Data Science master quiz



Module 14

Assignments



30th Jan Python Assignment

Feb 2 Python_Quiz_

Module 15

6th Feb'23 Python Task



Module 15 6th Feb'23 Python Task Python Task 1 B Python Task Quiz Module 16 7th Feb'23 Python Task 2 Python Task 2 B Python Task 2 Quiz Module 17 8th Feb'23 OOPs Polymorphism Encapsulation Inheritance **OOPS** Assignment Abstraction OOPs Quiz Module 18 9th Feb'23 OOPS TASK OOPS TASK

OOPS TASK Quiz

9th Feb'23 OOPS TASK



OOPS TASK



OOPS TASK Quiz

Module 19

10th Feb'23 OOPs Concepts



Decorators



Class Methods



Static Method



Special (Magic/Dunder) Methods



Property Decorators - Getters, Setters, And Deletes



OOPs Assignment



OOPs Concepts Quiz

Module 20

11 Feb'23 Files



Working With Files



Reading And Writing Files

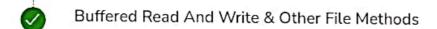


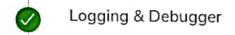
Buffered Read And Write & Other File Methods

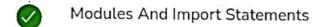


Logging & Debugger



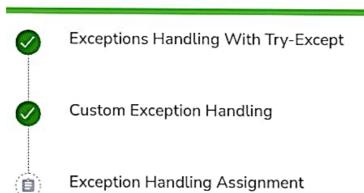


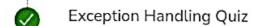






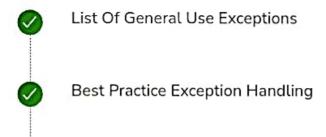
12 Feb'23 Exception Handling





Module 22

13 Feb'23 Exception Handling



Exception Handling Assignment

13 Feb'23 Exception Handling



List Of General Use Exceptions



Best Practice Exception Handling



Exception Handling Assignment



Exception Handling Quiz

Module 23

14th Feb'23 Multithreading



Multithreading



Multithreading Assignment



Multithreading Quiz

Module 24

15 Feb'23 Memory Management



Multiprocessing



Memory Management Quiz

Module 25

16 Feb'23 Database



Working With SQL



Mysql Assignment



Database Quiz

16 Feb'23 Database



Working With SQL



Mysql Assignment



Database Quiz

Module 26

17 Feb'23 Database



Working With MongoDB



MondoDB Assignment



Database Quiz

Module 27

18 Feb'23 Web API



What Is Web Api?



Difference B/W Api And Web Api



Rest And Soap Architecture



Restful Services



API Assignment



Web API Quiz

Module 28

19th Fah'23 Flack

19th Feb'23 Flask



Flask Introduction, Application, Open Link Flask, App Routing Flask & I



Flask Assignment-1



Flask Quiz

Module 29

20th Feb'23 Flask



Git



Flask Http Methods, Templates, Project & Postman



Flask Assignment-2



Flask Quiz

Module 30

21 Feb'23 Python Project :- Web Scrapping



Web Scrapping Introduction



Integration With Rest API, Web Portal And MongoDB



Deployment On Web Portal On AWS Cloud



Web Scraping Assignment

Module 31

22 Feb'23 Python Project: - Image Scrapper



Image Scrapper

Module 31 22 Feb'23 Python Project: - Image Scrapper Image Scrapper Deployment In Azure Image Scrapper Assignment Module 32 23 Feb'23 Pandas Basic Pandas Basic Pandas Basic Assignment Pandas Basic Quiz Module 33 24 Feb'23 Pandas Advance Pandas Advance Pandas Assignment Pandas Advance Quiz Module 34 25 Feb'23 Pandas Advance Pandas Part 3 Pandas Part 4

Pandas Part 5

25 Feb'23 Pandas Advance



Pandas Assignment



Module 35

26th Feb'23 Numpy



Numpy Part-3

Numpy Assignment

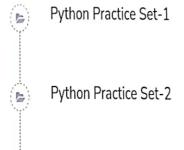
Numpy Quiz

Module 36

2 Mar'23 Visualization

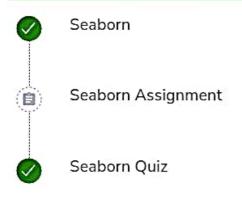
Pytho	on Practice Questions
	Python Practice Set 1
1	Python Practice Set -2
	Python Practice Set -3
	Python Practice Set -4
6	Python Practice Set -5
	Python Practice Set -6
6	Python Practice Set -7
6	Python Practice Set -8
	Python Practice Set -9
	Python Practice Set -10
6	Python Practice Set -11

Python Practice Solutions



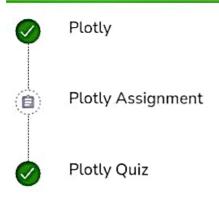
Python Practice Set-3

3rd March Visualization



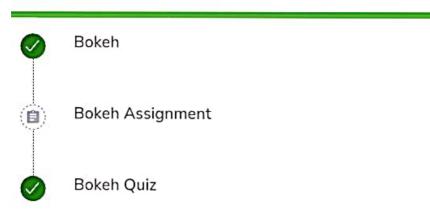
Module 40

4th March Visualization



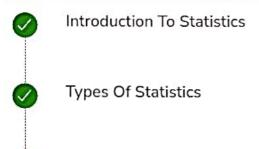
Module 41

5th March Visualization

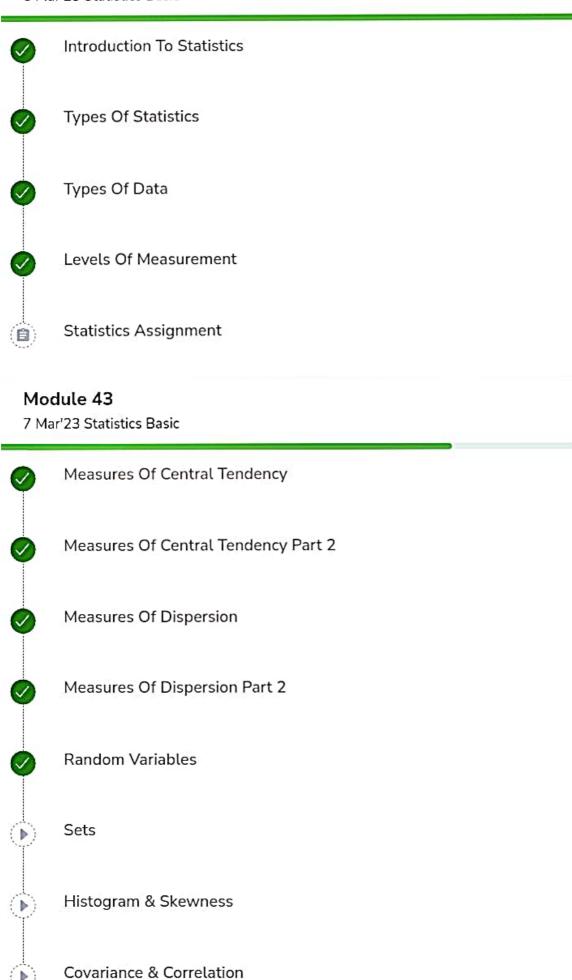


Module 42

6 Mar'23 Statistics Basic



Types Of Data



Covariance & Correlation Part 2

- Measures Of Central Tendency Measures Of Central Tendency Part 2 Measures Of Dispersion Measures Of Dispersion Part 2 Random Variables Sets Histogram & Skewness Covariance & Correlation Covariance & Correlation Part 2 Statistics Basic-2 Quiz Statistics Assignment 1) Module 44 8 Mar'23 Statistics Advance Probability Density/Distribution Function
- Types Of Probability Distribution

PDF, PMF & CDF

8 Mar'23 Statistics Advance

Statistics Advance Quiz

Ď	Probability Density/Distribution Function	
	PDF, PMF & CDF	
)	Types Of Probability Distribution	
	Bernoulli Distribution	
	Binomial Distribution	
Ò	Poisson Distribution	
)	Normal Or Gaussian Distribution	
j)	Statistics Advance Assignment	
	Statistics Advance Quiz	
Module 45 9 Mar'23 Statistics Advance		
)	Uniform Distribution	
	Z Stats & Z Table	
Ò	Central Limit Theorem	
	Statistics Advance Assignment	

Module 45 9 Mar'23 Statistics Advance Uniform Distribution Z Stats & Z Table Central Limit Theorem Statistics Advance Assignment 1 Statistics Advance Quiz Module 46 10 Mar'23 Statistics Advance Estimate Hypothesis Testing & Mechanism P Value Z Test With Examples Student T Distribution

Module 47

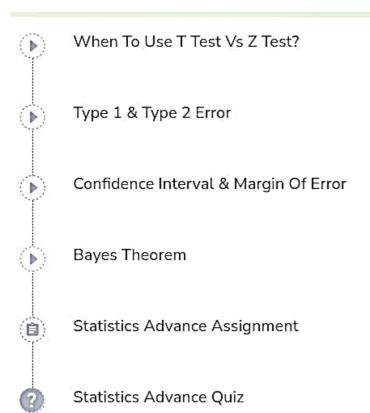
1

T Stats & T Test

Statistics Advance Assignment

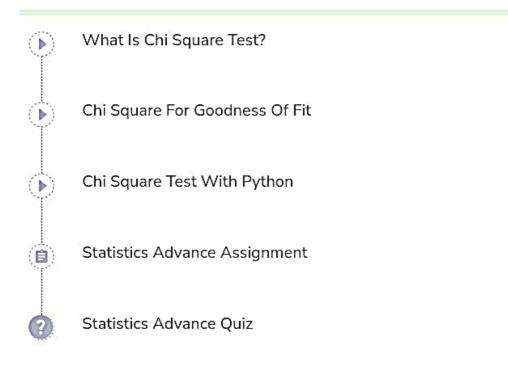
Statistics Advance Quiz

11 Mar'23 Statistics Advance



Module 48

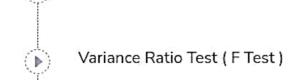
12 Mar'23 Statistics Advance



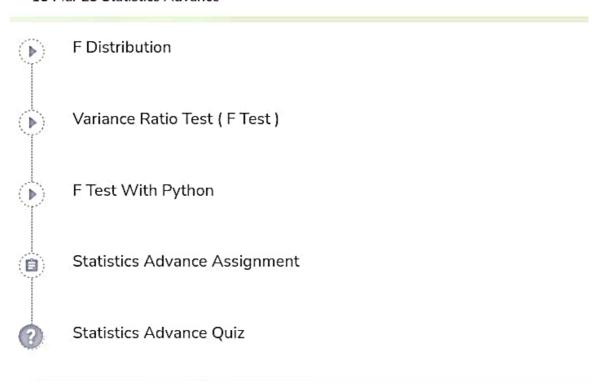
Module 49

13 Mar'23 Statistics Advance

F Distribution

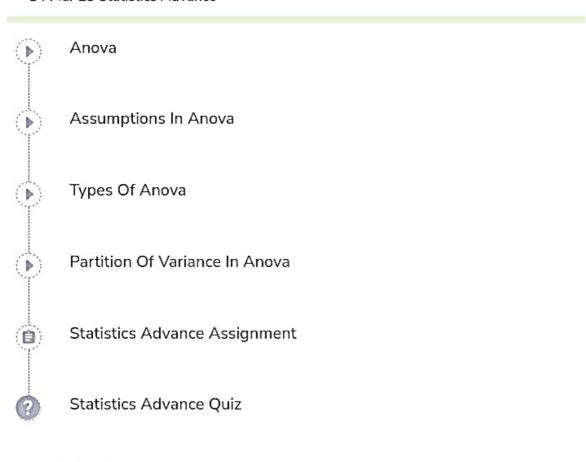


13 Mar'23 Statistics Advance



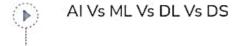
Module 50

14 Mar'23 Statistics Advance



Module 51

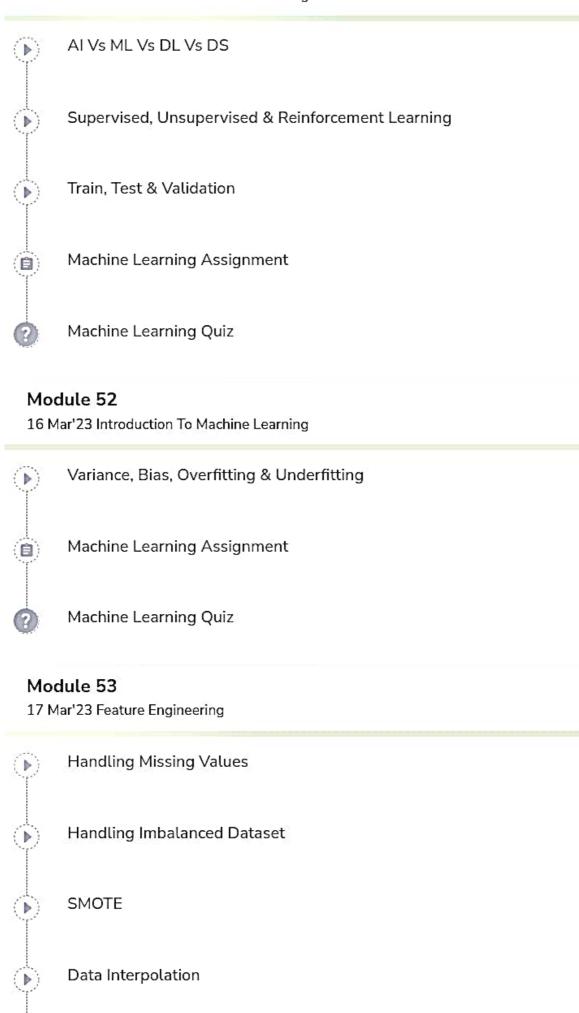
15 Mar'23 Introduction To Machine Learning



Supervised, Unsupervised & Reinforcement Learning

15 Mar'23 Introduction To Machine Learning

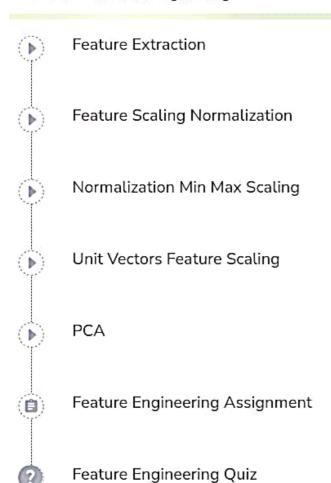
Handling Outliers



17 Mar'23 Feature Engineering Handling Missing Values • Handling Imbalanced Dataset SMOTE Data Interpolation Handling Outliers Feature Engineering Quiz Module 54 18 Mar'23 Feature Engineering Feature Selection Update Feature Engineering Feature Engineering Quiz Module 55 19 Mar'23 Feature Engineering Feature Extraction Feature Scaling Normalization Normalization Min Max Scaling Unit Vectors Feature Scaling

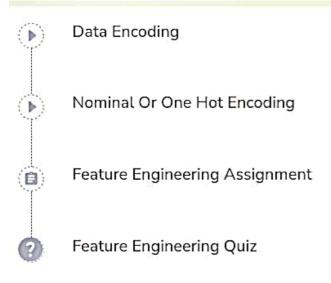
Module 53

19 Mar'23 Feature Engineering



Module 56

20 Mar'23 Feature Engineering



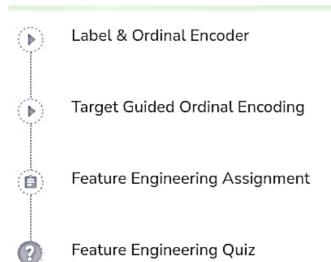
Module 57

21 Mar'23 Feature Engineering



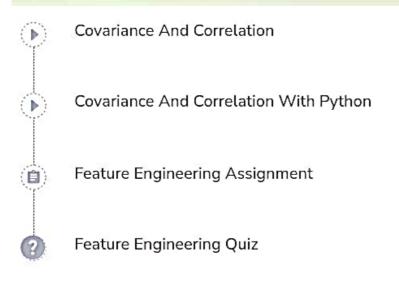
Label & Ordinal Encoder

21 Mar'23 Feature Engineering



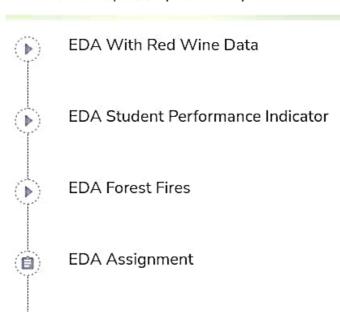
Module 58

22 Mar'23 Feature Engineering



Module 59

24 Mar'23 Exploratory Data Analysis



EDA Quiz

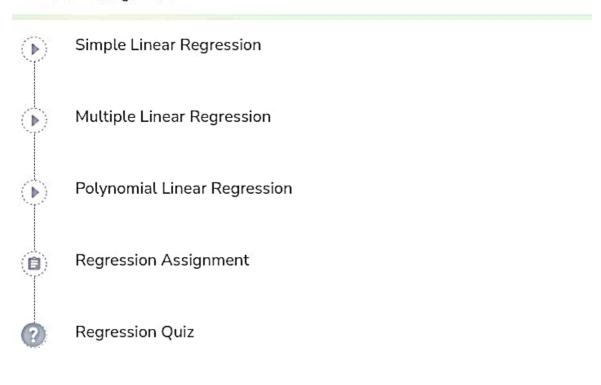
25 Mar'23 Exploratory Data Analysis



Module 61

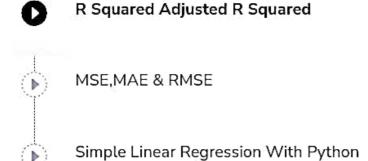
26 Mar'23 Regression

EDA Quiz



Module 62

27 Mar'23 Regression



Multiple Linear Regression



30 Mar'23 Regression

Module 65 30 Mar'23 Regression **)** Elastic Net Regression **>** EDA With Algerian Forest Fire • Model Training For Ridge, Lasso & Elastic Net 3 Regression Assignment Regression Quiz Module 66 31 Mar'23 Regression **)** End To End ML Project Git Commit End To End Project **>** : ML Project Deployment Regression Assignment 3 Regression Quiz Module 67 1st - 3rd April'23 Logistics Regression • Logistic Regression Indepth Intuition Logistic Regression With Regularization

Performance Metrics Confusion Matrix, Accuracy, Precision & Recall

Logistic Regression Indepth Intuition Logistic Regression With Regularization Performance Metrics Confusion Matrix, Accuracy, Precision & Recal Cross Validation & Types Hyperparameter Tuning Logistic Regression Implementation Logistic Regression Multiclass Classification End To End Project Deployment Logistics Regression Assignment Logistics Regression Quiz Logistics Regression - 2 Assignment Logistics Regression- 2 Quiz Logistics Regression-3 Assignment Logistics Regression-3 Quiz

Module 68

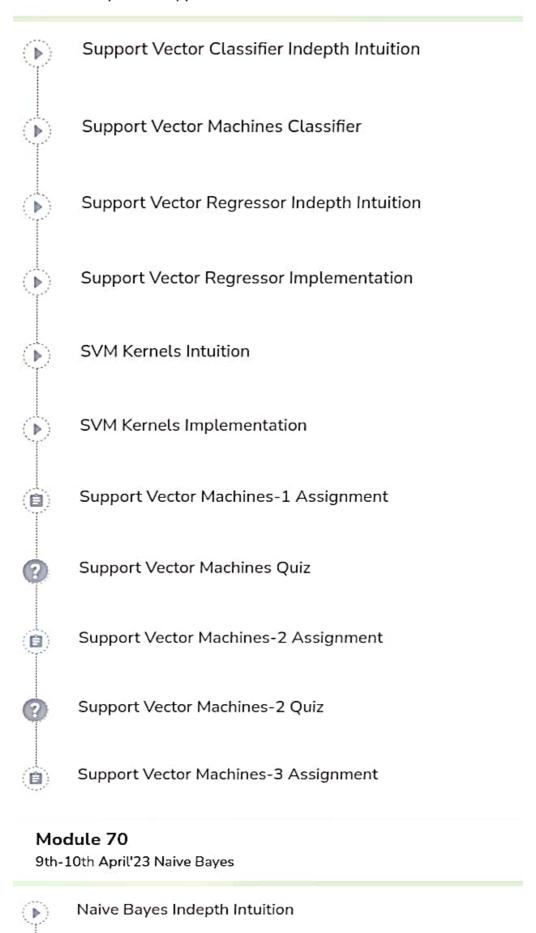
4th-5th April'23 Decision Trees

- Decision Tree Classifier Intuition Decision Tree For Numerical Split Post Pruning And Prepruning Decision Trees Decision Tree Classifier Implementation **Decision Tree Post Pruning** Decision Tree Regressor In-Depth Intuition Decision Tree Regressor Implementation Decision Tree-1 Assignment Decision Tree-1 Quiz Decision Tree-2 Assignment Module 69 6th-8th April'23 Support Vector Machines Support Vector Classifier Indepth Intuition
- Support Vector Machines Classifier

 Support Vector Regressor Indepth Intuition

 Support Vector Regressor Implementation

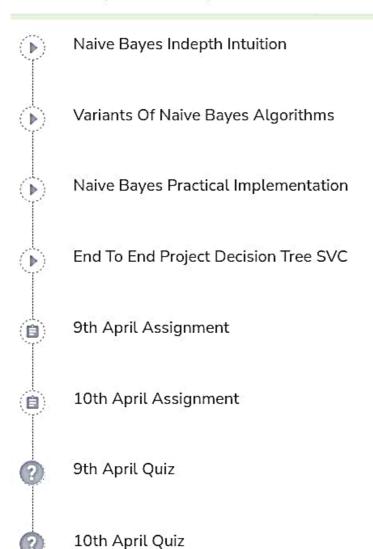
6th-8th April'23 Support Vector Machines



Variants Of Naive Bayes Algorithms

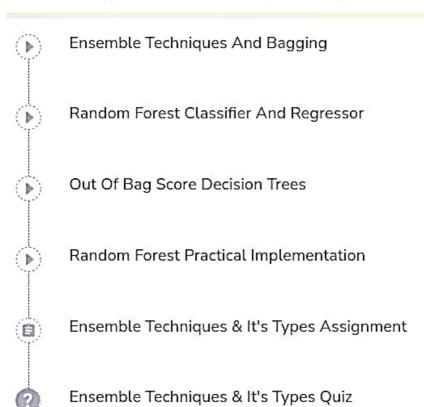
Naive Bayes Practical Implementation

9th-10th April'23 Naive Bayes



Module 71

11th-15th April'23 Ensemble Techniques & it's types



11th-15th April'23 Ensemble Techniques & it's types

- Ensemble Techniques And Bagging
- Random Forest Classifier And Regressor
- Out Of Bag Score Decision Trees
- Random Forest Practical Implementation
- Ensemble Techniques & It's Types Assignment
- Ensemble Techniques & It's Types Quiz
- Ensemble Techniques And Its Types-2 Assignment
- 12th April Quiz
- Ensemble Techniques And Its Types-3 Assignment
- 13th April Quiz
- Ensemble Techniques And Its Types-4 Assignment
- 14th April Quiz
- Ensemble Techniques And Its Types-5 Assignment
- 15 April Quizz

Module 72

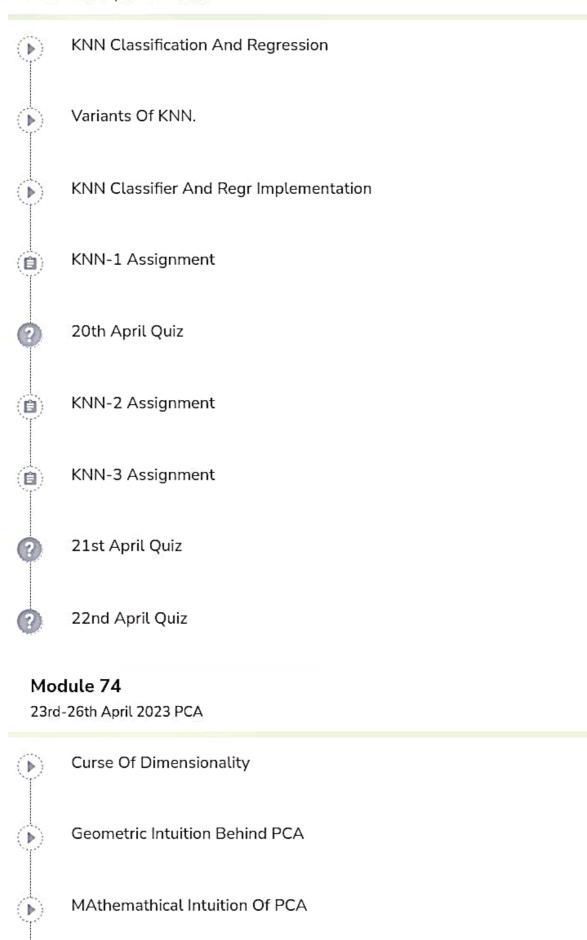
16th-19th April 2023 Boosting

3

KNN-1 Assignment

16th-19th April 2023 Boosting

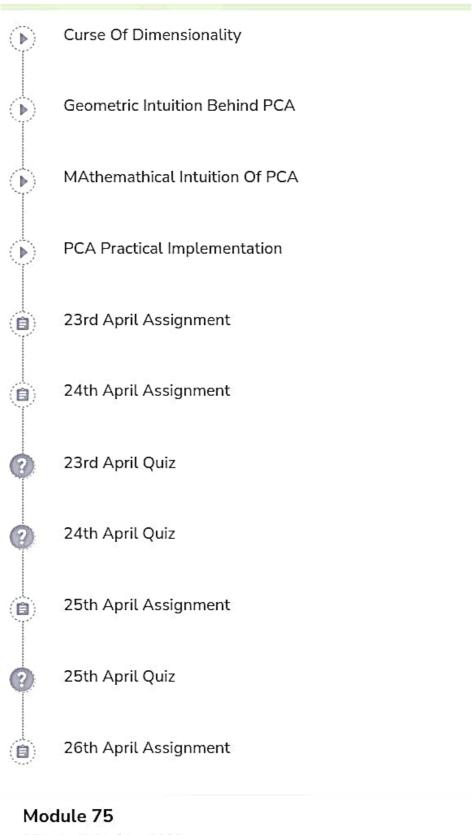
Boosting Technique Gradient Bosting Indepth Intuition Xgboost Classification Algorithms Xgboost Regresor Algorithm Boosting-1 Assignment Boosting-2 Assignment 16th April Quiz 17th April Quiz 18th April Quiz Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN. KNN Classifier And Regr Implementation			
Gradient Bosting Indepth Intuition Xgboost Classification Algorithms Xgboost Regresor Algorithm Boosting-1 Assignment Boosting-2 Assignment 16th April Quiz 17th April Quiz 18th April Quiz Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.	9	Boosting Technique	
Xgboost Classification Algorithms Xgboost Regresor Algorithm Boosting-1 Assignment Boosting-2 Assignment 16th April Quiz 17th April Quiz 18th April Quiz Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.)	Boosting Technique	
Xgboost Regresor Algorithm Boosting-1 Assignment Boosting-2 Assignment 16th April Quiz 17th April Quiz 18th April Quiz Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.		Gradient Bosting Indepth Intuition	
Boosting-1 Assignment Boosting-2 Assignment 16th April Quiz 17th April Quiz 18th April Quiz Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.		Xgboost Classification Algorithms	
Boosting-2 Assignment 16th April Quiz 17th April Quiz 18th April Quiz Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.		Xgboost Regresor Algorithm	
 16th April Quiz 17th April Quiz 18th April Quiz Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN. 	j	Boosting-1 Assignment	
17th April Quiz 18th April Quiz Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.	D	Boosting-2 Assignment	
Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.		16th April Quiz	
Module 73 20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.		17th April Quiz	
20th-22nd April 2023 KNN KNN Classification And Regression Variants Of KNN.		18th April Quiz	
Variants Of KNN.			
	Ð	KNN Classification And Regression	
KNN Classifier And Regr Implementation	Ò	Variants Of KNN.	
	D	KNN Classifier And Regr Implementation	



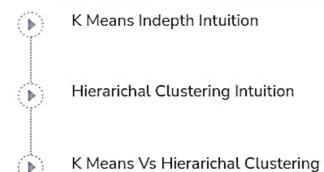
23rd April Assignment

PCA Practical Implementation

23rd-26th April 2023 PCA



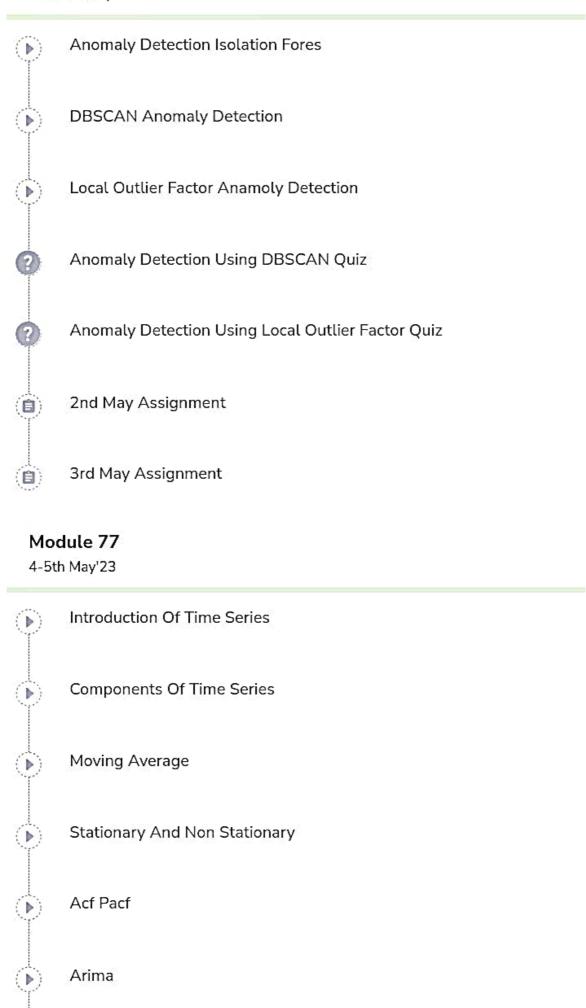
27th April-1st May 2023



Module 75 27th April-1st May 2023

- K Means Indepth Intuition
- Hierarichal Clustering Intuition
- K Means Vs Hierarichal Clustering
- DBSCAN Clustering
- Silhouette Score Clustering
- K Means Clustering Implementation
- Hierarichal Clustering Implementation
- DBSCAN Algorithms Implementation
- 27th April'23 Assignment
- 28th April'23 Assignment
- 27th Apr Quiz_Clustering
- 28 April'23 Quiz Hierarchical Clustering Intuition
- 29th April Assignment
- 29th April Quiz
- 30th April Assignment

2nd-3rd May 2023



Time Sereis Model Building

Introduction Of Time Series Components Of Time Series Moving Average Stationary And Non Stationary Acf Pacf Arima Time Sereis Model Building Time Sereis EDA Time Series-2 4th May Assignment ∄: 5th May Assignment

Module 78

6th May'23 Diamond Price Prediction Project



6th May'23 Diamond Price Prediction Project



Model Trainer ML Project

Prediction Pipeline

Module 79

16th May Neural Network A Simple Perception



Neural Network, Perceptron & Mathematical Explanation

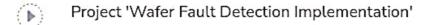
Module 80

17 May'23 Machine Learning project discussion

Project 'Wafer Fault Discussion'

Module 81

20 May'23 Machine Learning project discussion



20 May'23 Machine Learning project discussion



Project 'Wafer Fault Detection Implementation'

Module 82

17 - 22 May Neural Networks



Mathematical Concepts



Activation Functions



Forward & Back Propagation



Implementation Of ANN Using Keras



Callback Functions

Module 83

24th May'23 Neural Network



Regression Using ANN



Loss Function



Batch Normalisation



Regularization



Neural Network Assignment

Module 84

24th May'23 Machine learning Project discussion



24th May ML Project Discussion

24th May'23 Machine learning Project discussion

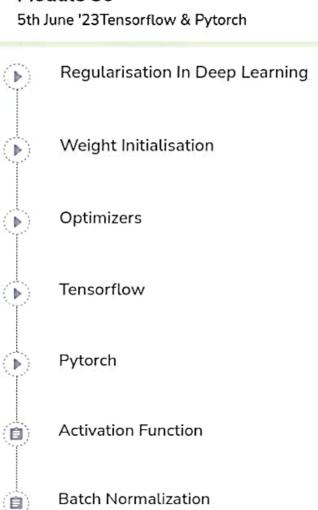
24th May ML Project Discussion

Module 85

27th May'23 Machine learning Project discussion

27th May ML Project Discussion

Module 86



4.

(a) Callback Functions

Forward & Backward Propagation

implementation Of ANN In Keras

Optimizers

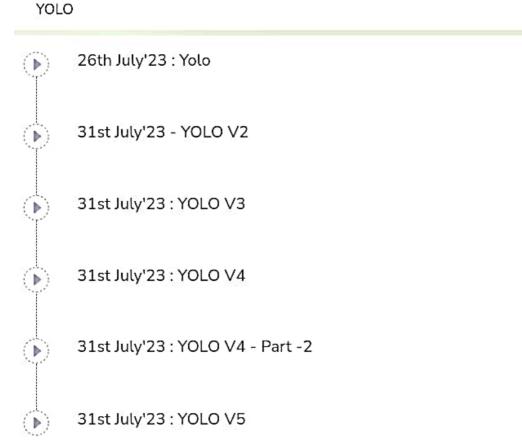
(B)	Optimizers	
(a)	Regularization	
(B)	TensorFlow Fundamentals	
(B)	Weight Initialization	
0	Activation Functions Quiz	
0	Forward & Backward Propagation Quiz	
0	Callback Functions Quiz	
0	Loss Functions In ANN (Beginner Level) Quiz	
0	Regularization Quiz	
0	Batch Normalization	
0	Optimizers In ANN Quiz	
0	Weight Initialization Techniques In ANN Quiz	
3	TensorFlow Fundamentals Quiz	
Module 87 14th June'23 ML Project (Credit Card Fault Detection)		

Live Class

Module 88 18th June'23 Live Class Live Class (CNN) **D** Module 89 23rd June'23 ML Project **>** 23rd ML Project Module 90 24th June'23 ML project Discussion **>** ML Project (Cement Strength Prediction) Module 91 CNN . **CNN Resource** CNN Foundation - 1 CNN - 2 CNN - 3 (Explainer) CNN - 4 (LENET) CNN - 5 (Alex Net) 25th June'23 (CNN Live Lecture) 29th June'23 (CNN Live Lecture)

10th July'23 (VGG NET)

CNN - 3 (Explainer) CNN - 4 (LENET) CNN - 5 (Alex Net) 25th June'23 (CNN Live Lecture) 29th June'23 (CNN Live Lecture) 10th July'23 (VGG NET) 12th July'23 (Resnet) 14th July'23 (Inception Net) 17th July'23 (RCNN) 17th July'23 : Fast RCNN 20 July'23: Faster RCNN (Object Detection) 26 July: Non Maximum Suppression 3 Assignment - CNN Architecture Assignment - Fundamentals Of CNN 1



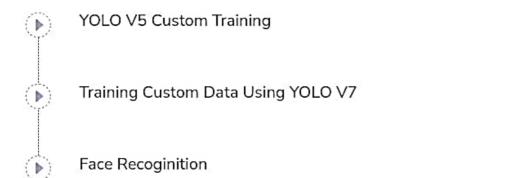
Module 93

07th Aug'23: YOLO



Module 94

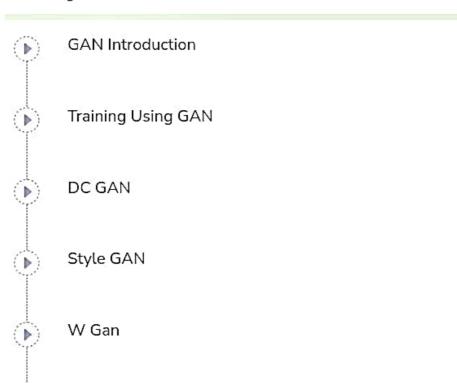
14th Aug'23: YOLO



Module 95

21 Aug'23 - GAN

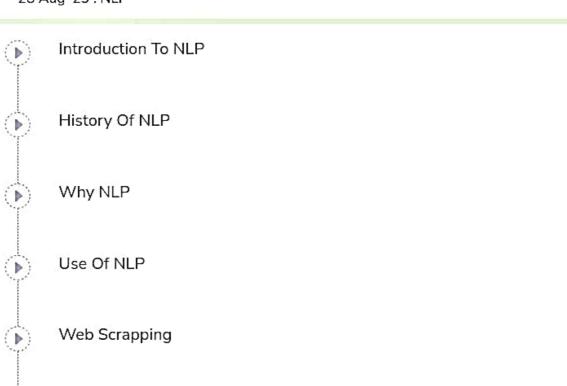
21 Aug'23: GAN



Module 96

28 Aug '23 : NLP

GAN Practical



Module 97

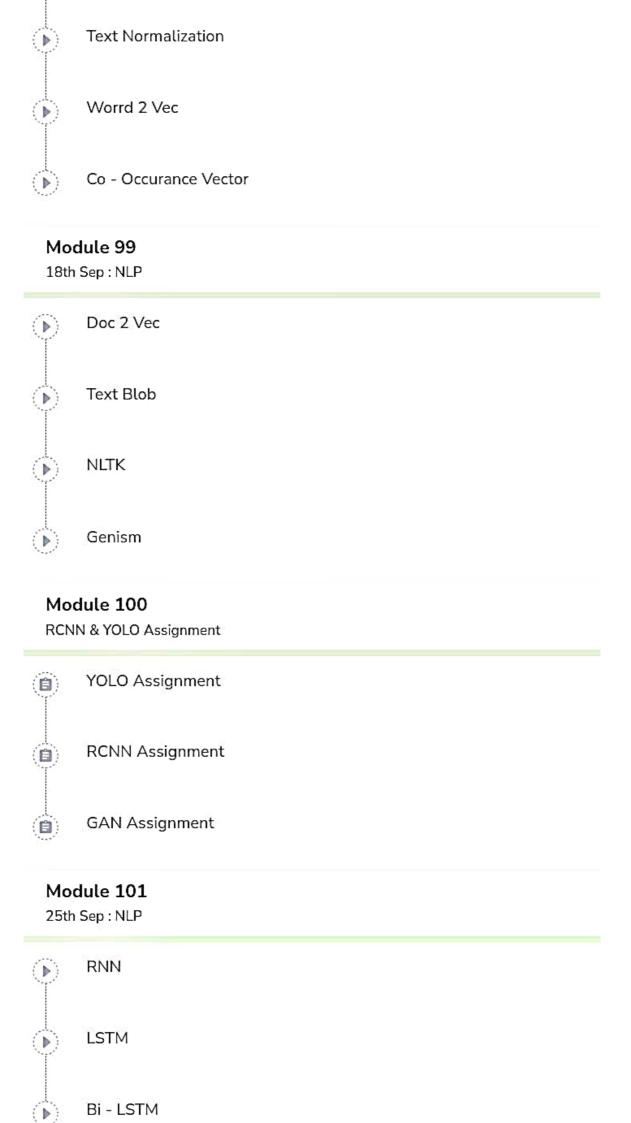
Computer Vision Project

Text Processing

Understanding Regex

Module 97 Computer Vision Project • **Object Racking >** Image Classification Image To Text Vision Based Attendence System • Sign Language Detection Shredder System Module 98 05th Sept'23: NLP Þ.) String Tokenization Sentence Processing Word Embedding Lemmatization In Text Processing Frequency Distribution **Annotator Creation** Word Count

Text Normalization



Module 101 25th Sep: NLP • RNN **LSTM** Bi - LSTM Module 102 25th Sep: Bigdata Introduction To Bigdata **Bigdata Application** Bigdata Pipeline Hadoop Introduction Hadoop Intallation Hadoop Architecture Hadoop Commands Module 103 04Oct : Bigdata - Spark Spark Overview Spark Installation

RDD

04Oct : Bigdata - Spark

Spark Overview

Spark Installation

RDD

Dataframes

Spark Architecture

Spark Ml Lib

Spark Nlp

Module 104

•

Live NLP Projects

05 Oct : Chatbot Project Using LLM Model OpenAl API

Text Summarization

Name Entity Recognization (NER) Project

17th Oct : Language Transilator & Code Generation Project

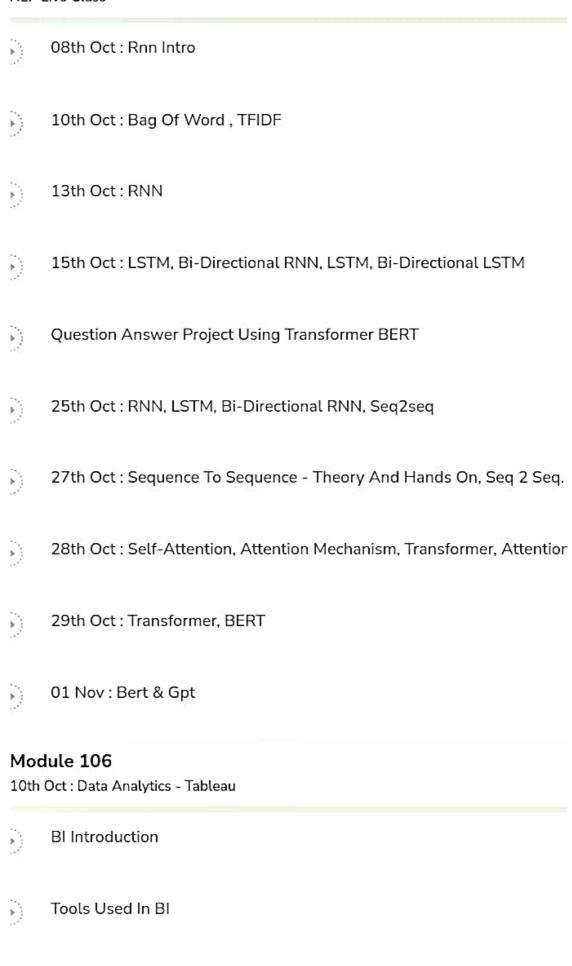
Module 105

NLP Live Class

08th Oct : Rnn Intro

10th Oct : Bag Of Word , TFIDF

NLP Live Class



Methodologies Used In BI

Connection To Different Data Sources

Tableau Desktop Basics

Tableau Desktop Basics Basics Of Visualization Hierarchy, Marks Card, Bar Chart And Its Types Pie Chart Treemap And Packed Bubbles Maps

Module 107

Big data Live Classes

Assignment

16th Oct : Data Engineering Introduction 20th Oct : Python Hacker Rank Solutions 21st Oct : Docker Intro And Installation 22nd Oct : Docker Practical 23rd Oct : Spark Dataframe Part - 1 23rd Oct : Spark Dataframe - 2 26th Oct : Spark Practical

Module 108 25th Oct : Tableau Text Table And Formatting Visuals **>** Heatmap And Highlight Table Lines & Area Chart **>** : Circle, Side By Side Circle View And Shapes WordCloud ScatterPlot Histogram & Bins Gantt View And Waterfall Chart • Refrence Lines And Bands, Distribution Band & Bullet Graphs Dual Axes Visuals - Part 1 Dual Axes - Part 2

Animated Charts

Funnel Charts & Its Types

Donut Chart & Multiple Donut Chart

Dumbhell Barbell Or DNA Chart

Ò	Gantt View And Waterfall Chart
)	Refrence Lines And Bands, Distribution Band & Bullet Graphs
	Dual Axes Visuals - Part 1
	Dual Axes - Part 2
,	Animated Charts
ò	Funnel Charts & Its Types
)	Donut Chart & Multiple Donut Chart
-	Dumbbell, Barbell Or DNA Chart
•	Butterfly Chart
•	Box & Whisker Plot
	Filters In Tableau Part - 1
	Filters In Tableau Part - 2
	Parameters In Tableau
	Sets In Tableau
	Table Calculation

T drameters in Tubledd Sets In Tableau Table Calculation Joins & Unions Data Blending Tableau Dashboard Tableau Server **User Security** Module 109 Power Bi Live Class Installation & Introduction

Installation & Introduction

O1st Nov: Cleaning & Processing Of Data

O2nd Nov - Power Bi

O4th Nov: Live Class

O5th Nov: Live Class

14th Nov: Live Class

• ;	Table Calculation	
	Joins & Unions	
	Data Blending	
	Tableau Dashboard	
	Tableau Server	
	User Security	
Module 109 Power Bi Live Class		
)	Installation & Introduction	
	01st Nov: Cleaning & Processing Of Data	
	02nd Nov - Power Bi	
	04th Nov : Live Class	
	05th Nov : Live Class	
	07th Nov : Live Class	
D	14th Nov : Live Class	
Ò	15th Nov : Live Class	
•	18th Nov : Live Class	