

Data Science with Machine learning and python

Internship Program







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120+ Hours of Online Training

1:1 Live Mentoring



Career,Interview and Internship guidance



Learn 8+ Technologies



Learn from Industry Experts

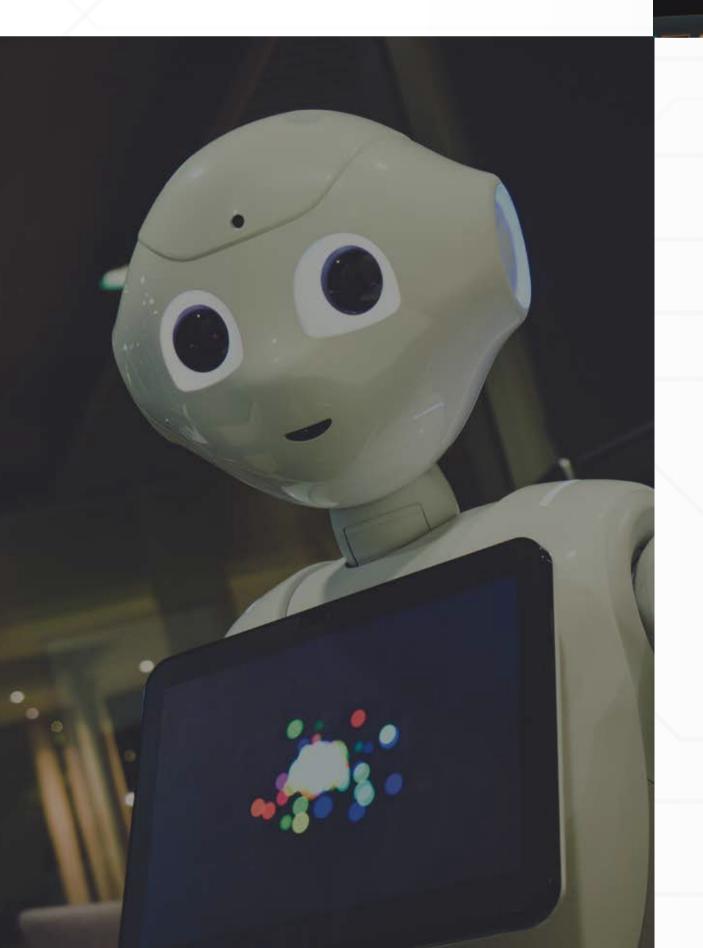


Create your own hands-on Project



Intern with us

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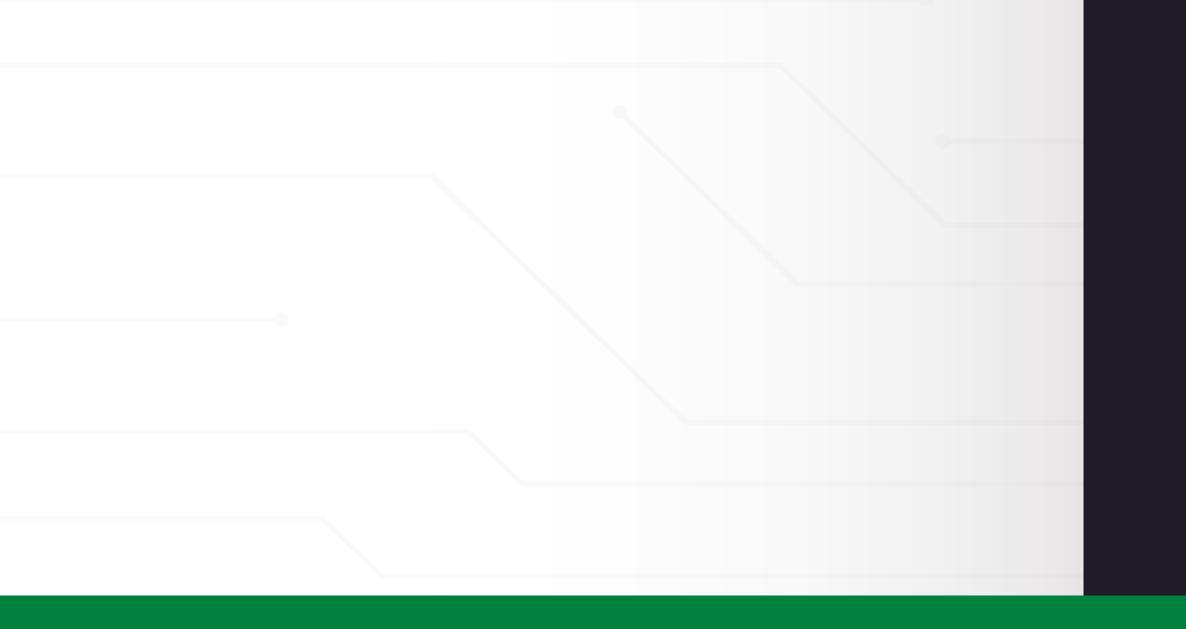






Who are we?

TCR Innovation is a career platform for Students and Learners where they are provided with practical opportunities, Industrial Training Programs and Internships.





Salient Features of This course

1 120+ Hours of Live Intensive Training

10+ Hours of Hands-on Assignments and Projects

Career, interview, internship and Placement guidance

Lifetime Access to Latest Content

5 Learn from the Experts

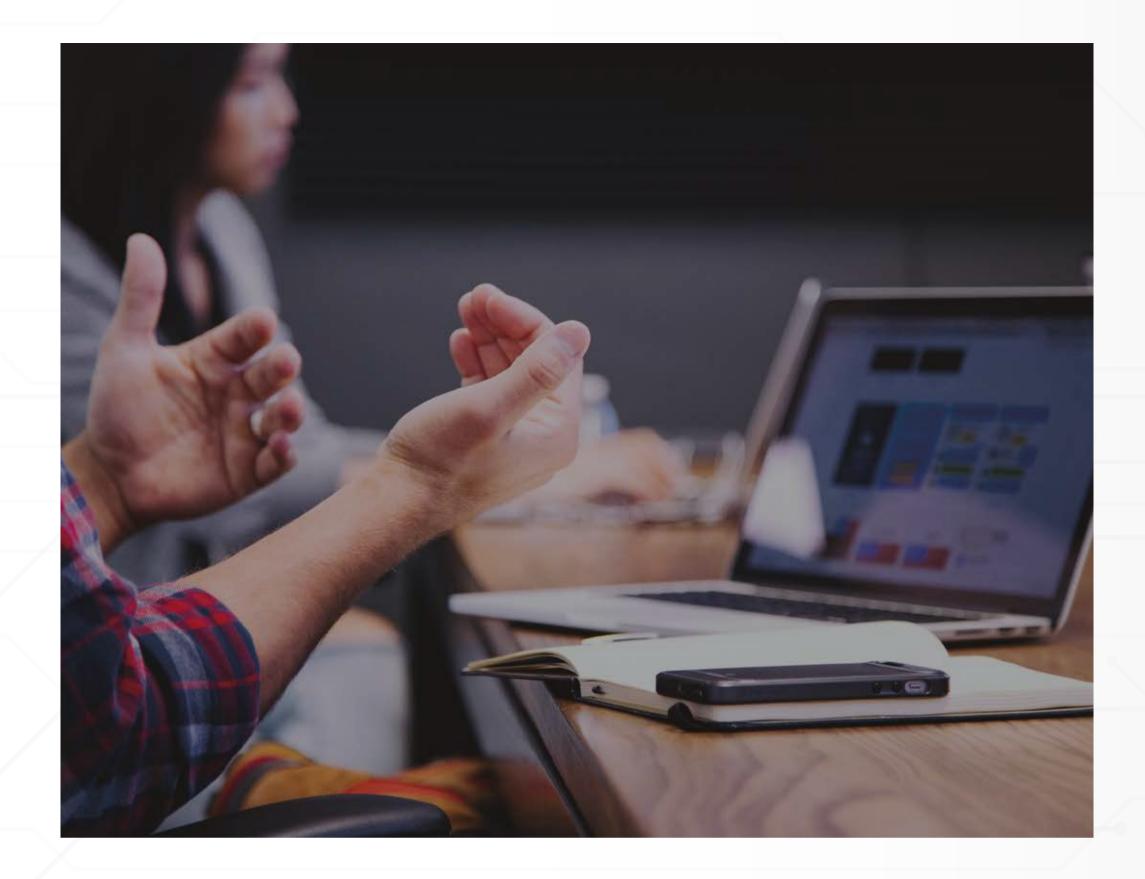
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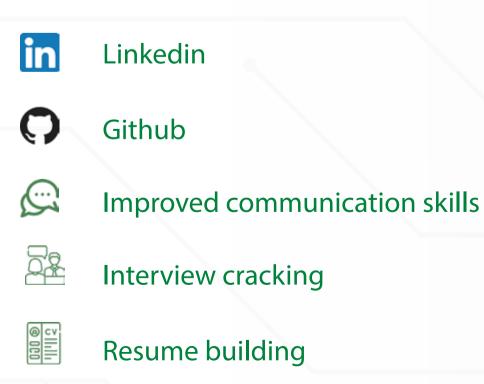
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24X7 Support through Discussion forum





Additional skills You will learn



Resume building

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Leadership skills

SKILLS YOU WILL LEARN Structured Query Language (SQL)

Part 1

Introduction

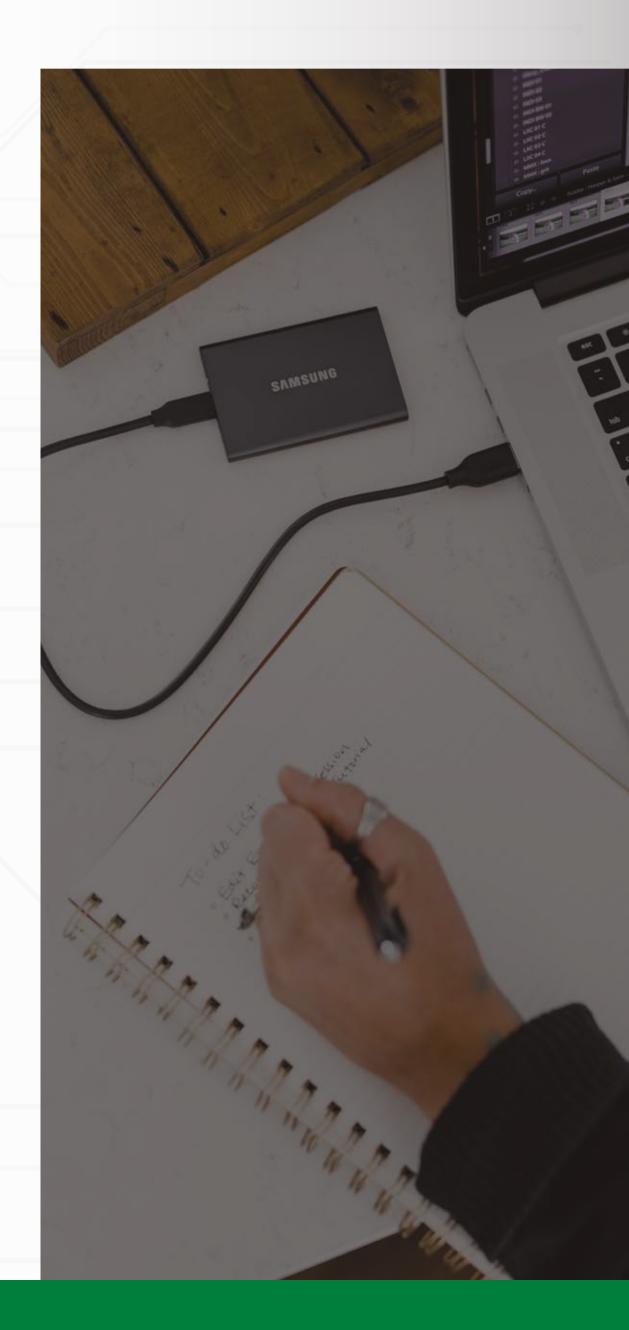
What is SQL Real time applications How SQL works

Database

What is a Database Comparison of two Databases Database Management System(DBMS) Relational Databases Database Queries

Tables and Keys

Introduction Primary key Foreign Key



Basics of SQL

Data Query Language Data Definition Language Data Control Language Data Manipulation Language

Creating tables and Inserting values

Datatypes Create, Alter and Drop How to Insert values after creating tables Select command.

SKILLS YOU WILL LEARN Structured Query Language (SQL)

Part 2

Constraints

What is a constraint Not Null constraint Unique constraint Primary key constraint Foreign Key constraint Check , Create Index and Default constraints

Update and Delete

Update and Delete commands uses Working with Update and Delete

Aggregate Functions

What is an aggregate function Types of aggregate functions



Working with aggregate functions

Additional Clauses

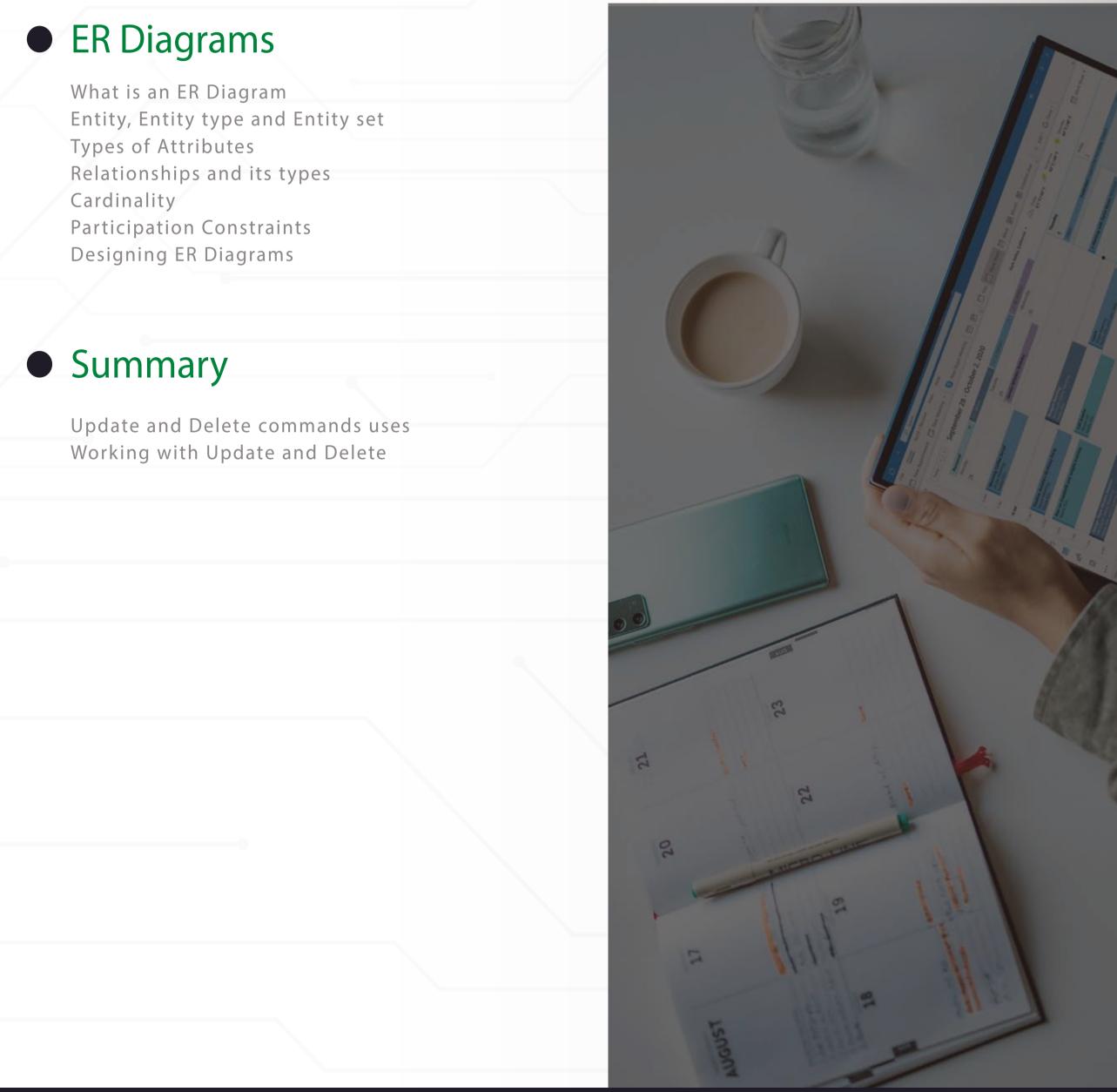
As Between Group by Having Like Or

Union and Joins

Union Inner Join Outer Join Left Outer Join Right Outer Join

SKILLS YOU WILL LEARN Structured Query Language (SQL)

Part 3



SKILLS YOU WILL LEARN PYTHON

Part 1

Introduction

Introduction to python History of python Installing and using python

Basic programs in python

Get started with "Hello world" program. Addition and multiplication in python

Variables

How to work with variables Datatypes of variables Type conversion of variables Writing expressions using variables





• Operators

Arithmetic operators Comparison operators Logical operators **Bitwise operators** Assignment operators Identity operators Membership operators

Conditional statements

What are conditional statements in python Programs using conditional statements If else and elif

SKILLS YOU WILL LEARN PYTHON Part 2

Loops and Iteration

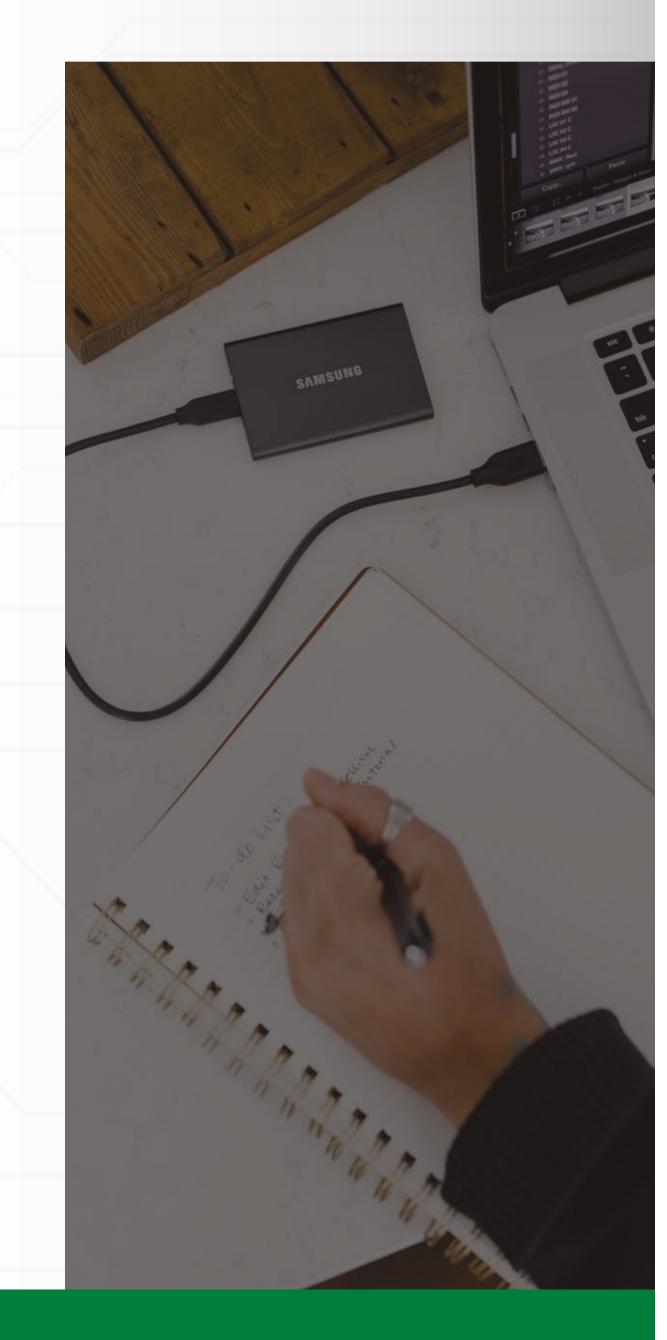
For loops While loops Various programs using loops

Functions

User defined functions and predefined functions Types of arguments Input and output Recursion

Strings

Introduction to strings String methods Working with strings



• Lists

What is a list and how does it differ from array List methods Programs using lists

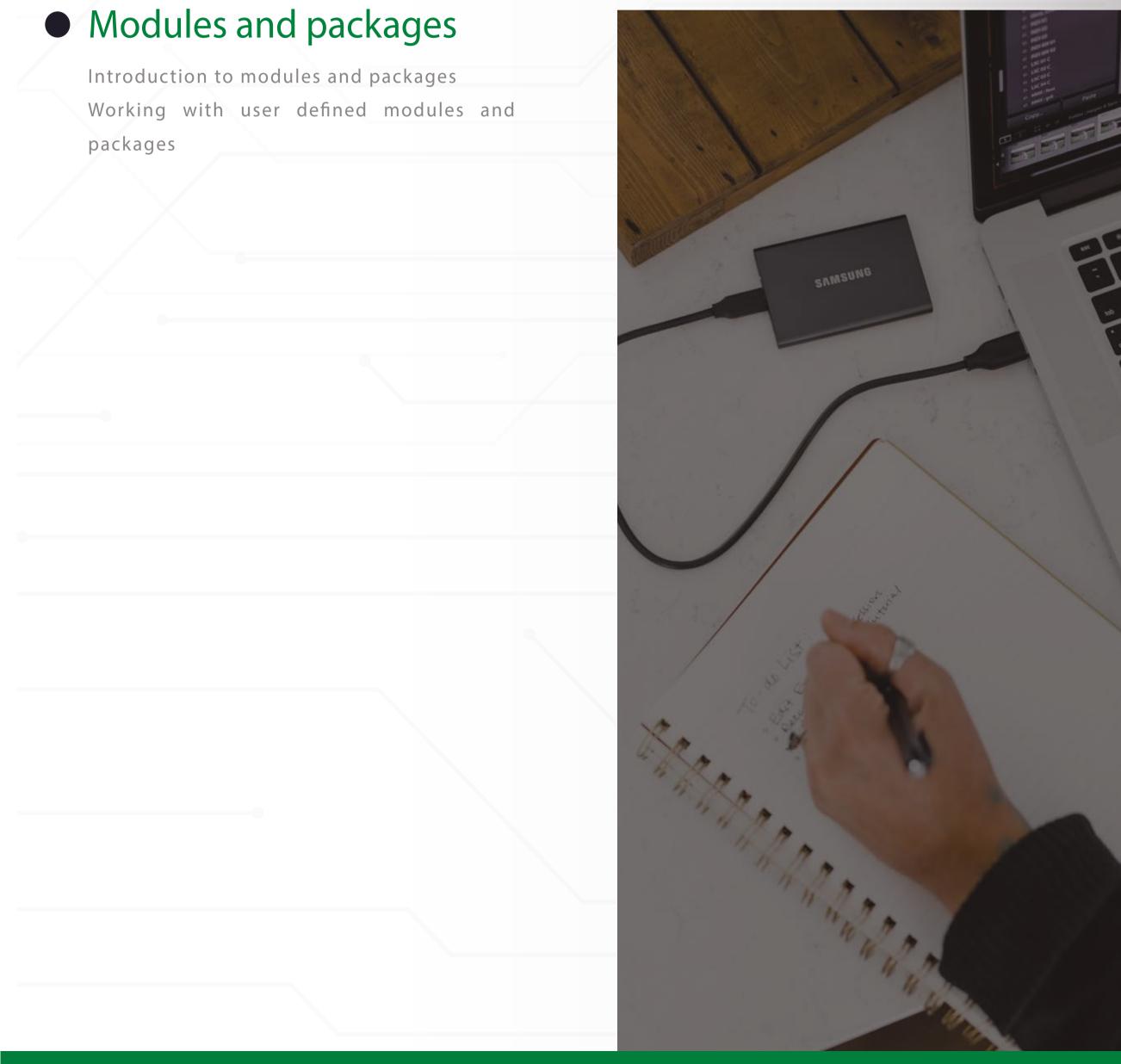
• Tuple

Introduction to tuple Working with tuples Methods of tuples

Dictionary

Keys and values Working with dictionaries

SKILLS YOU WILL LEARN PYTHON Part 3



SKILLS YOU WILL LEARN DATA SCIENCE

Part 1

Data Science

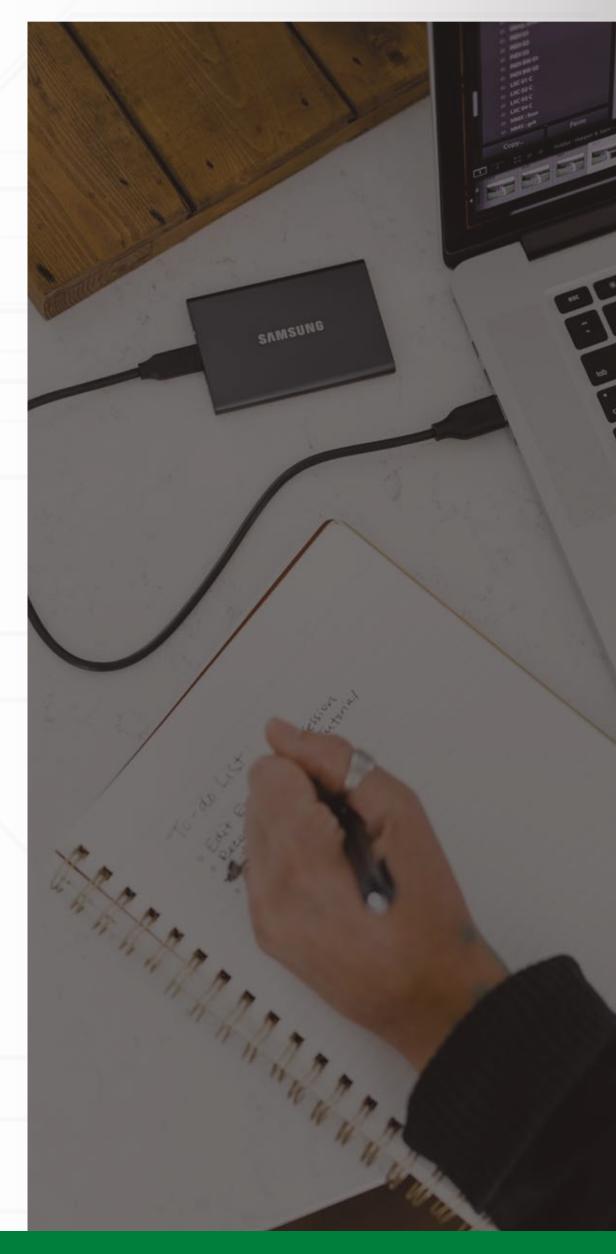
Inferential and descriptive statistics

Measures of center and measures of spread

Normal distribution

Binomial distribution

Poison distribution



Bernoulli distribution

Predictive modeling

Part 1

Introduction to Machine Learning

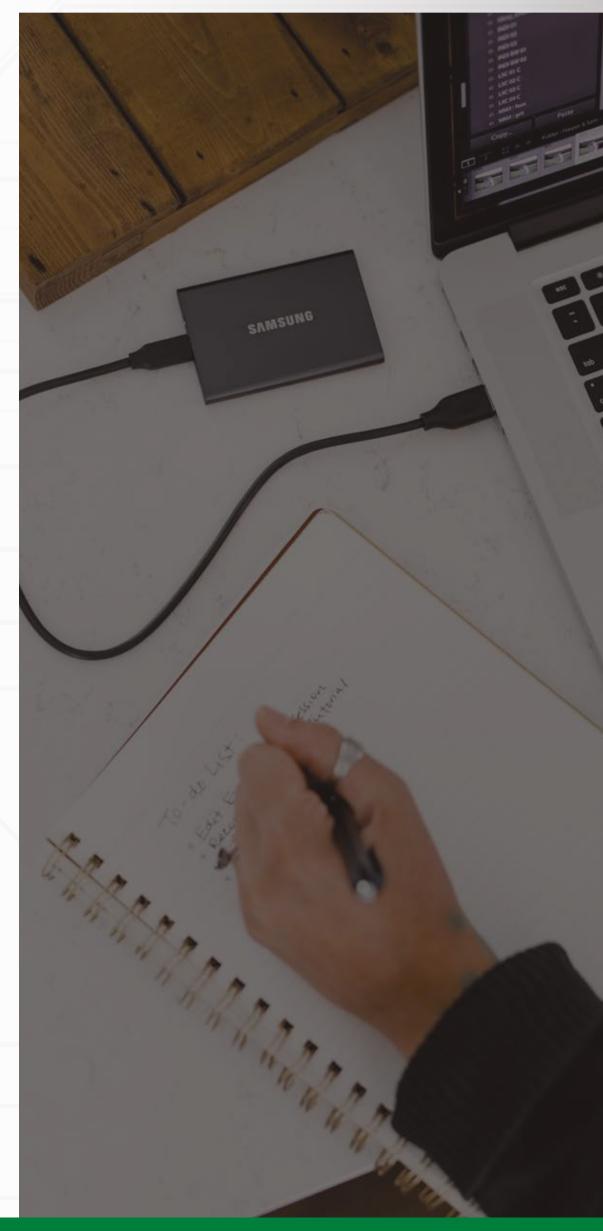
What is Machine Learning Realtime applications of Machine Learning. Get started with Machine Learning

Libraries in python

Numpy Scipy Matplotlib Seaborn Sklearn

Pandas

Data visualization and



manipulation using pandas

Reading a Dataset Readers and types of files Dataframes Identifying and Treating null values

Dealing with categorical variables

Data Exploration

Outliers

Graphs and Plots

Barplot, histograms, box plot, count plot, reg plot, dist plot etc.

Splitting and Training the data

Part 2

Types of Machine Learning

Supervised Learning Unsupervised Learning Reinforcement Learning

Supervised Learning

What is supervised learning Examples of supervised Learning Classification Regression

Unsupervised Learning

What is Unsupervised LearningExamples of Unsupervised LearningClustering with examplesAssociation Rule Mining and real time applications



• Linear Regression

What is Linear Regression Representation of Linear Regression Prediction using Linear Regression Implementation using Python MultiLinear Regression

Logistic Regression

What is Logistic Regression Algorithm Uses of Logistic Regression algorithm Visualisation and Predictions of Logistic Regression Implementation using Python Working of Logistic Regression

Part 3

Decision Trees

What is a Decision Tree Examples of Decision Tree Classification Trees and Regression Trees Working of Decision Trees Python implementation Visualizing Decision Trees

Random Forest

What is a Random Forest algorithm Difference between Random Forest and Decision Trees Examples and implementation Working of Random Forest

K Nearest Neighbor



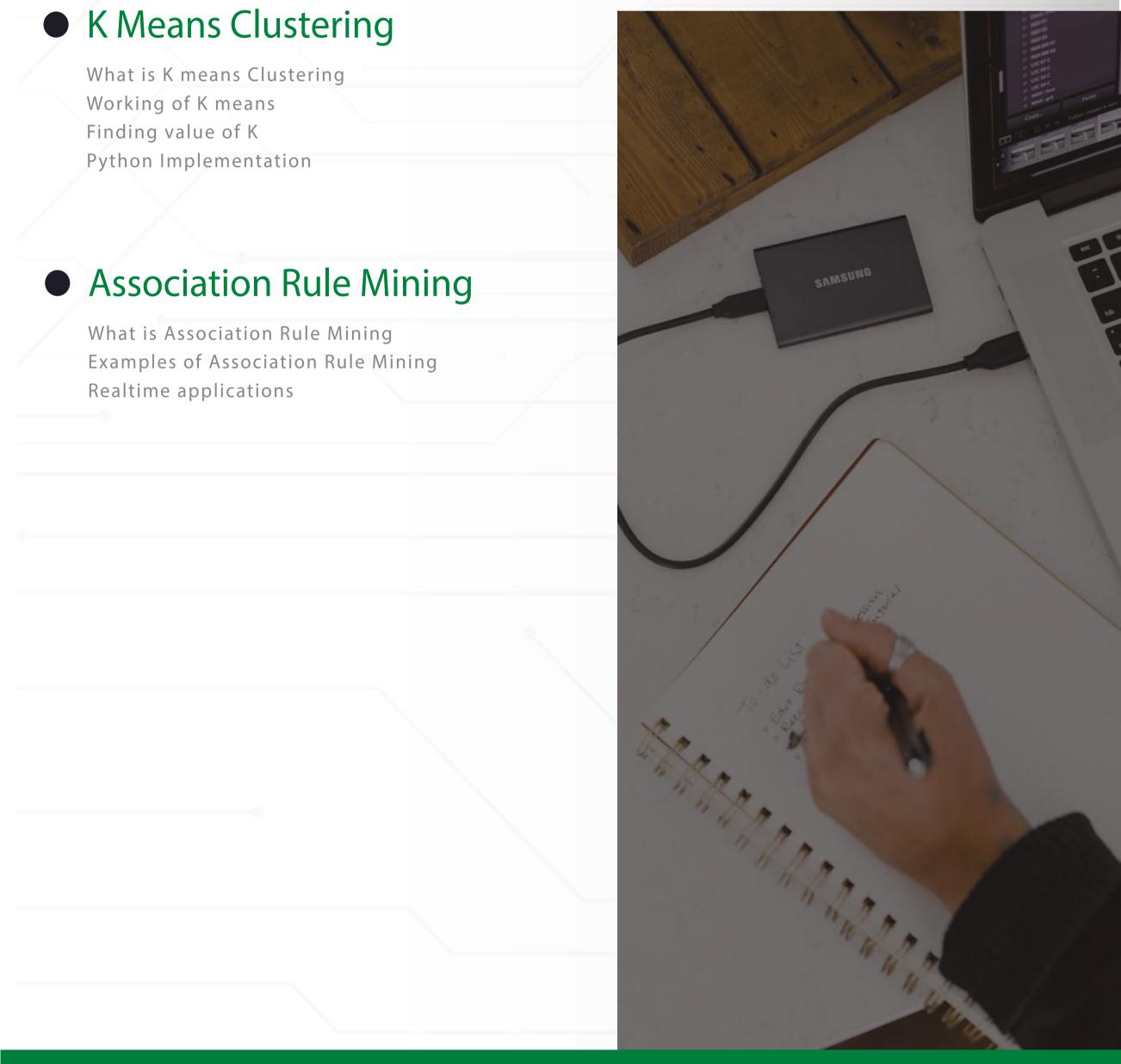
Need of KNN Working of KNN Finding the value of k Advantages and Disadvantages Python Implementation Visualization of KNN

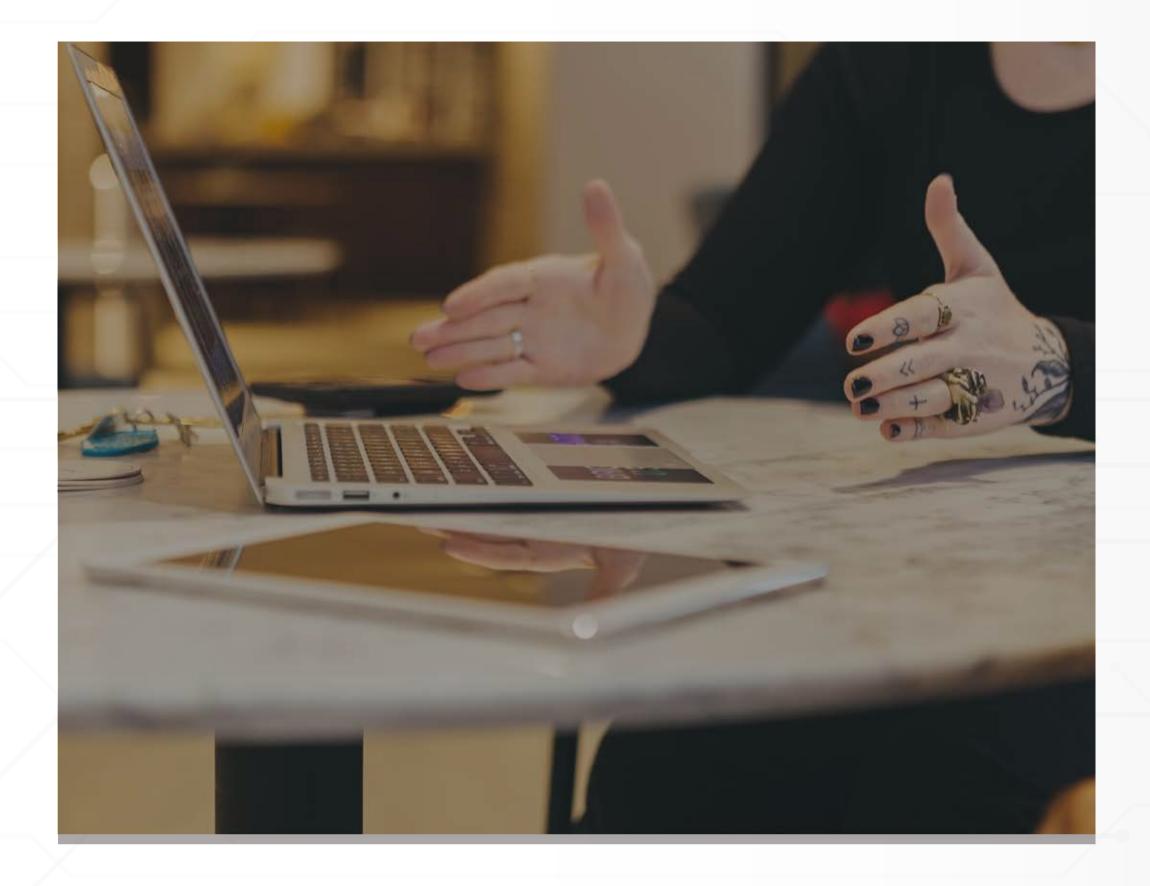
Naive Bayes Classifier

Bayes Theorem Working of Naïve Bayes Advantages and Disadvantages Types of Naïve Bayes model Python Implementation

Part 4

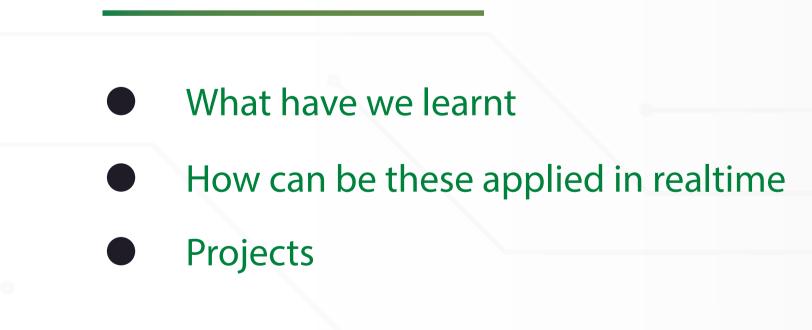
Finding value of K Python Implementation



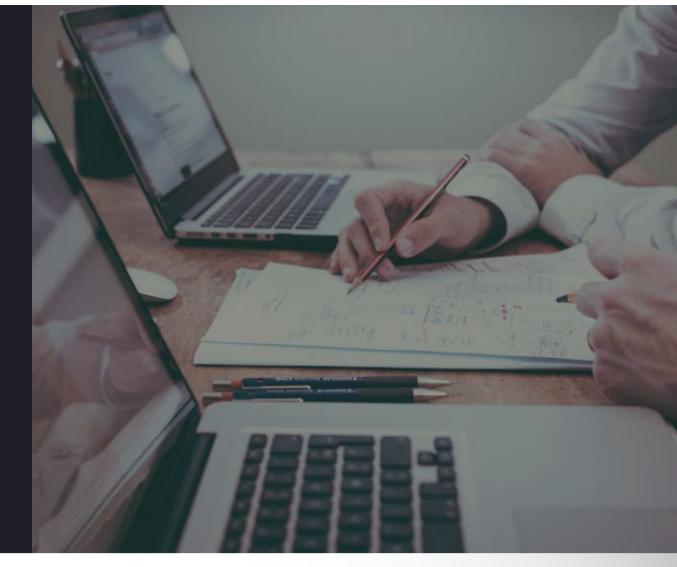


Intership Project report

You will create a project report on your final internship project



CERTIFICATION & REGISTRATION



CERTIFICATE

Training Completion Certificate

Internship Certificate

Letter of recommendation

Appreciation certificate

Internship Program Registration

Duration of the internship program: 2 Months

How to Register & Fees:

Step 1: Attend the free orientation to get the detailed information

about our internship program.

Step 2: Final Registration Form will be provided and fees will be dis-

closed in the orientation itself.

TCR INNOVATION

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