

Training Program on Data Science (13th Mar, 2023 to 12th Apr, 2023)

Data Science is an interdisciplinary field that involves extracting insights and knowledge from structured and unstructured data. It combines techniques from statistics, mathematics, computer science, and domain expertise to analyze and interpret complex data sets. The primary goal of data science is to derive meaningful and actionable insights that can inform decision-making and solve real-world problems. A 30 Days Data Science Masterclass was held from 13th Mar, 2023 to 12th Apr, 2023. Dr. Souvik Ganguli from the Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala was the coordinator for the program. The link for the above program is given for reference: <https://www.youtube.com/watch?v=uBIbRMXKsK4>

The collage consists of several screenshots from a YouTube video:

- Top Left:** A video player showing a person presenting a slide titled "Data science Introduction and overview".
- Top Right:** An "AGENDA" slide for "Day1-Introduction to datascience|Data Science for Beginners". It lists topics: PYTHON, PYTHON LIBRARIES, Data Science elements, MACHINE LEARNING CONCEPTS, Tools for visualization, and Data Science Projects. A "Lets Get Started" button is visible.
- Middle Left:** A slide titled "Data Science" with the text: "Data Science is a combination of multiple disciplines that uses statistics, data analysis, and machine learning to analyze data and to extract knowledge and insights from it."
- Middle Right:** A slide titled "What is Data science" with the text: "Data Science is about data gathering, analysis and decision-making. it is about finding patterns in data, through analysis, and make future predictions."
- Bottom Left:** A slide titled "Day1-Introduction to datascience|Data Science for Beginners" showing various applications of data science: Flight delay, Route planing, promotional offer, find the best suited time, forecast revenue, Health benefits, and predict the win partition.
- Bottom Middle:** A slide titled "DATA SCIENCE LIFE CYCLE" with five stages: Data collection, Data preparation, Data Mining, Model Building, and Model Deployment.
- Bottom Right:** A slide titled "PROJECTS YOU WILL LEARN TO DEVELOP" listing: Credit Score Classification, Stress Prediction Models, and Social Media Ads Classification.
- Bottom Center:** A screenshot of a Jupyter Notebook titled "Loan_Status_Prediction.ipynb" showing the code for importing dependencies:

```
import numpy as np
import pandas as pd
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn import svm
from sklearn.metrics import accuracy_score
```