

# INDEX

SL.NO	PROGRAM	DATE
<b>CO1: Use different python packages to perform numerical calculations, statistical computations and data visualization</b>		
1	Program to review the fundamentals of python.	07/07/2025
2	Program to perform arithmetic operations on a 2D Matrices.	10/07/2025
3	Program to find the inverse, rank, determinant, eigen values of a given matrix.	11/07/2025
4	Program to create customized line plot for comparing the Age-wise annual salary variations for Python developer with JavaScript developer from the dataset of the average annual salary of developers of various programming languages.	15/07/2025
5	Program to create a gender wise count plot by using the values in the sex column dataset of tips taken on the total bill amount in restaurants.	15/07/2025
6	Program to create a histogram of a list of random age of 100 individuals in a range between 1 and 91.	15/07/2025
7	Program to create a bar chart of the popularity of programming languages.	15/07/2025
8	Program to create a pie chart of the popularity of programming languages.	18/07/2025
9	Program to create a scatter plot between the 'Sepal Length' & 'Sepal Width' columns & Differentiate between the data points of different classes.	22/07/2025
<b>CO 2 Use different packages and frameworks to implement regression and classification algorithms.</b>		
10	Program to implement k-NN classification using any standard dataset available in the public domain and find the accuracy of the algorithm.	08/08/2025
11	Program to implement Naïve Bayes Algorithm using any standard dataset available in the public domain and find the accuracy of the algorithm	08/08/2025
12	Program to implement linear regression algorithm using any standard dataset available in the public domain and evaluate its performance.	21/08/2025
13	Program to implement multiple regression algorithm using any standard dataset available in the public domain and evaluate its performance.	31/08/2025

<b>CO 3: Use different packages and frameworks to implement text classification using SVM and clustering using k-means</b>		
14	Program to implement decision trees using any standard dataset available in the public domain and find the accuracy of the algorithm.	10/09/2025
15	Program to implement k-means clustering technique using any standard dataset available in the public domain.	17/09/2025
16	Program to implement text classification using Support vector machine using any standard dataset available in the public domain and evaluate its performance.	07/10/2025
<b>CO 4: Implement convolutional neural network algorithm using Keras framework.</b>		
17	Programs on convolutional neural network to classify images from any standard dataset in the public domain.	09/10/2025
<b>CO 5: Implement programs for web data mining and natural language processing using NLTK</b>		
18	For a given text 1) perform word and sentence tokenization. 2) Remove the stop words from the given text 3) Perform Part of Speech tagging 4) create n-grams for different values of n=2,4.	17/10/2025
19	Implement a program to scrap the web page of any popular website – suggested python package is scrapy (ensure ethical conduct).	20/10/2025