Machine Learning Using Python

Day 8: Assignment

1. Write a Pandas program to create and display a DataFrame from a specified dictionary data which has the index labels. Sample Python dictionary data and list labels:

a. exam_data = {'name': ['Ankita', 'Dia', 'Kapil', 'Jayesh', 'Esha', 'Mayank', Ravi, 'Lata', 'Kamal', 'Jatin'],

b. 'score': [12.5, 9, 16.5, 15, 9, 20, 14.5, 17.5, 8, 19],

c. 'attempts': [1, 3, 2, 3, 2, 3, 1, 1, 2, 1],

d. 'qualify': ['yes', 'no', 'yes', 'no', 'no', 'yes', 'yes', 'no', 'no', 'yes']}

2. Create a data frame using dictionary.

a. Dictionary (‘id’:[P101,P102,P103,P104,P105], ‘Price’:[256, 340, 540, 260, 470])

b. Print the price of product id – p102.

c. Print values of Price column.

d. Rename the column id to Product_Id and Price to Base_Price.

3. Create a new data frame with three columns – Product_Name, Cost, Sales.

a. Add 10 values in data frame.

b. Add a new column named quantity with 10 values.

c. Add a new column named: Profit and total_profit and fill values.

d. Insert a new column named location after Product_Name column with 10 cities.

(New Delhi, Lucknow, Kolkata, Lucknow, New Delhi, Bengaluru, Chennai, Chennai, Kolkata, Bengaluru)