



**SURESH
GYAN VIHAR**
UNIVERSITY
Accredited by NAAC with 'A' Grade

INTERNAL ASSIGNMENT - 1

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|---------------------|------------|------------------------------------|
| Course | MCA | Data Analytics Using Python |
| Semester | 5 | |
| Total Marks: | 15 | |

Q.1. Write answers for any two questions from below. 5 marks each – Word limit – 500

- A. How to implement Maximum Likelihood Estimation using Python?
- B. Write a note on Chi - Square Test of Independence.
- C. Write a note on logistic regression.

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. Write note on errors in hypothesis testing.
- B. What is normal distribution?
- C. Write a note on K-means clustering.
- D. Explain confidence interval using python.
- E. What are the different terminologies used in probability?



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INTERNAL ASSIGNMENT - 2

| | | |
|---------------------|------------|------------------------------------|
| Course | MCA | Data Analytics Using Python |
| Semester | 5 | |
| Total Marks: | 15 | |

Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

- A. Write a Pandas program to get the first 3 rows of a given DataFrame.
- B. What is the goal of regression analysis and why we use it?
- C. What are the key assumptions to apply for linear regression?

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. How Probability Distributions Work?
- B. Explain matplotlib Architecture.
- C. Write a note on Attribute selection Measures.
- D. What is the difference between regplot() and Implot().
- E. Explain different types of Classifiers.