

Data Insight

Knowledge for Insight from Data

DATA SCIENTIST PROGRAM

Assignment - Statistical Concepts for Data Science

Understanding fundamental statistical concepts is essential for doing data science. In this assignment, explain in detail 10 statistical concepts. Give coding examples to illustrate your answers. Your code should be written in your preferred notebook. Choose 5 concepts from the list below and the other 5 concepts (not from the list) your choice.

1. Population and Sample
2. Probability distributions
3. Normal distribution
4. Measures of central tendency
5. Measures of dispersion
6. Covariance and Correlation
7. Central limit theorem
8. P-value
9. Statistical Significance
10. Bayes' theorem

Upload your notebooks to your GitHub repository.

Using your notebook, write a blog post to explain your code. Give your blog a unique title. The blog should be written [here](https://www.datainsightonline.com/blog) (<https://www.datainsightonline.com/blog>) with code from your notebook embedded (**Do not embed code images!** [See the options for embedding your code](#)).

Submit the links to your notebook and blog [here](#).