Statistics and Mathematics Lectures

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About

This websites contains lectures on statistics and mathematics. These are chiefly meant for being used as reference materials, for finding the techniques and/or formulae easily as you need them. Over the time, however, the topics would be elaborated. They also serve as a means to get a quick overview on statistics and probability.

- See the lecture presentations here

All the lectures are made using R programming language inside Rstudio IDE. The presentations were made using the revealjs package. This site was generated using the bookdown package.

**If you find any msitakes or any suggestions, please let me know

You can learn more about me here and about my writings on statistics, data science, and linux here.

About me

I am a **lecturer in statistics** at *Pabna Cadet College.* Lear more about me.

Part I

Statistics

Statistics

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Part II

Probability

Chapter 1

Random variable

1.1 List of probability distributions

1.1.1 Continuous

1.1.1.1 Joint PDF

1.
$$f(x, y) = 8xy; 0 < x, y < 1$$

2.
$$f(x, y) = \frac{3}{2}(x + y); 0 < x, y < 1$$

3.
$$f(x, y) = 4x(1 - y); 0 < x, y < 1$$

4.
$$f(x, y) = 6xy^2); 0 < x, y < 1$$