

Assignment_03

April 14, 2021

0.1 Assignment 03 - Statistics II (due by 9th of December)

The assignments for this exercise were scattered around the lecture today. You can either answer them on a piece of paper, scan/photograph your notes, or solve them in Latex as a PDF document and upload them into the `Assignment_03` folder, hit `submit` on the `Assignments` tab on top, or solve them here via Latex.

You'll find a PDF with the summarized homework in the `Assignment_03` folder in your home on the Jupyterhub.

To change a cell, simply double-click and type your solution like you would in a Latex-document. Almost everything works like you know it, raw text, `\begin{..}` environments, and other features that Latex offers. Don't provide a `\begin{document}`

0.2 1. Probability Calculation for 2 Distributions, page 1 (2 Points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE
      raise NotImplementedError()
```

0.3 2. Proof for Expectation Expression, page 4 (2 Points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE
      raise NotImplementedError()
```

0.4 3. Mean and Variance for Binomial Distribution, page 5 (2 Points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE
      raise NotImplementedError()
```

0.5 4. Poisson Distribution Sum, page 6 (2 points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE
      raise NotImplementedError()
```

0.6 5. Geometric Distribution Mean and Variance, and Example, page 9 (2 Points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE
      raise NotImplementedError()
```

0.7 6. Express the Integrand, page 10 (2 points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE
      raise NotImplementedError()
```

0.8 7. Two Equations, page 16 (2 Points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE
      raise NotImplementedError()
```

0.9 8. Probability Computation, page 23 (2 Points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE
      raise NotImplementedError()
```

0.10 9. 2 Derivations, page 29 (2 points)

Put your answer in the cell below, preferably in Latex-format:

```
[ ]: # YOUR CODE HERE  
     raise NotImplementedError()
```
