<PKU 통계스터디 6번째 >

Python Project

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Project 1. "TESTs/project_180408/project1_1M.txt

- 1. Draw & save the plot. See what does the distribution looks like
- 2. Importing the gaussian fitting function, draw and save the plot.
- 3.1. "X-range" of histogram, which height of two bins reach half of the heighest bin's. Compare this "X-range" with "[(mean-Standard_deviation),(mean+Standard_deviation)]" (function introduction)
- 3.2. Normal distribution function. (function introduction)
- 4. Starting from very left side, find the 'bin' which has 95% of total entry. (x_p95)
- 5. Starting from very left side, find the 'bin' which has 97.5% of total entry. (x_p975)
- 6. Starting from very left side, find the 'bin' which has 5% of total entry. (x_p05)
- 7. Starting from very left side, find the 'bin' which has 2.5% of total entry. (x_p025)

Project 1. (continue) “TESTs/project_180408/project1_1M.txt

- 8. For All of “x_p95”, “x_p975”, “x_p05”, and “x_p025”, calculate corresponding “(x-mean)/std ” value.
- 9. (Think) What is ‘8’ for?
- 10. exclude left side of “x_p05”, regenerate txt file and Draw corresponding histogram.
- 11. exclude left side of “x_p025”, also exclude right side of “x_p975”, regenerate txt file and draw corresponding histogram.