**CS634 – Data Mining: Probability Theory**

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**Problem 1a:**   
The heights of adult men in the United States are approximately normally distributed with a mean of 70 inches and a standard deviation of 3 inches. Heights of adult women are approximately normally distributed with a mean of 64.5 inches and a standard deviation of 2.5 inches.  
  
Graph the two distributions from 0 to 100 inches using the plotting framework of your choice ( Matplotlib, Seaborn etc.)  
  
**Answer:**

Plotting for Men:

Text

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Plotting for Women:

Chart

Description automatically generated with medium confidence

**Problem 1b:**   
What is the probability that a female is between the heights of 65 inches and 70 inches? What is the probability that a female is between the heights of 65 inches and 70 inches given that they are at least 60 inches tall ( You can use 100 as the upper limit of the distribution )?  
  
(Hint: This is a probability assignment, not a calculus assignment. You do not need to calculate any integrals, just show the steps that you would take and the final result)  
  
**Answer:**

Height between 65 and 70 inches  
We need to calculate 2 z values, one for each endpoint.  
at 65  
Z=(65 - 64.5)/2.5 = 0.2  
  
at 70  
Z=(70 - 64.5)/2.5 = 2.2  
  
Probability (z<0.2) = 0.57926  
  
Probability (z<2.2) = 0.9861  
  
0.9861 - 0.57926 = 0.40684 = 40.68%

**Probability that a female is between the heights of 65 inches and 70 inches is 40.68%**  
  
Height between 65 and 70 inches with atleast 60 inches tall(Y>60)  
  
Probability P(65<Y<70 |Y > 60) = (P(Y>60|65<Y<70) \* P(65<Y<70))/P(Y>60)  
P(65<Y<70 |Y > 60) = 1\*0.40684/0.9641 = 0.4219  
  
**Probability of Height given when Y = atleast 60 is about 42.19%**  
  
  
**Problem 1c:**   
Lets say you conduct an experiment with a 100 trials where you measure a random man’s height. Lets say the measurement that you take is always rounded down to an integer  
  
( ie. both a person with a height of 75.2 inches and a person of height 75.8 inches would be recorded as 75 inches thus making the distribution a discrete distribution instead of continuous).  
  
What do you expect the count of men with a height of 70 inches to be? What type of distribution do you expect it to be?  
  
( You do not need to answer these questions, it is simply something to think about to aid you with the next part )  
  
Calculate the probability distribution function of the “counts” of people out of 100 with a height of 70 inches.  
  
( Hint: You will have to find the categorical probability that a man is of height 70 )  
  
Simulate the experiment 1000 times to show the relationship on a plot. What is the relationship between number of times the experiment is run and how close it is to the true distribution  
  
( Hint: numpy has many functions that can allow you to simulate distribution functions )  
  
  
**Answer:**  
  
What do you expect the count of men with a height of 70 inches to be? What type of distribution do you expect it to be?

**The type of distribution will be normal distribution.**

Simulate the experiment 1000 times to show the relationship on a plot. What is the relationship between number of times the experiment is run and how close it is to the true distribution

**We are doing 1000 random trials and counting the number of people where their height = 70 inches, Lets assume in experiment 1, we get a count = 10 (meaning 10 people out of 100 have a height 70 inches). Similarly in the second random pick, we might get a count= 40. There are also possibilities of repeated counts in the random sample, lets say in experiment 3 we again get the count = 10. Since the drawing of samples is random, the counts can repeat in these 1000 experiments, and they will repeat. Plot would converge to a normal distribution. The mean of this obtained normal distribution would be same as the mean of the probability distribution of counts of people with height 70.**

**Chart, bar chart, histogram

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**Problem 2a and 2b:**  
Given the circuit below, the probability that any switch S is closed (current passes through ) is p? What is the probability that there is a signal at the output? Give your answer in terms of p.

Given the same circuit above, if a signal is observed at the end, what is the probability that S3 is open ( no current going through ) . Give your answer in terms of p.

A picture containing diagram

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Text, letter

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**Problem 3a:**

It follows that those with a larger height will be generally heavier than those with a smaller height. This is just a broad generalization and does not always apply. [Here](https://www.kaggle.com/mustafaali96/weight-height/version/1) is a link to a data set that contains anonymous entries on peoples’ gender, height and weight. Download this dataset ( It is pretty small don’t worry ). You might need to make a Kaggle account. Kaggle is an online community of data scientists and has a large collection of open source datasets for many different purposes.

Familiarize yourself with the package pandas, as you can use it to easily unpack the csv into manipulatable datatypes. If you are using [colab](https://colab.research.google.com/), which you most likely are, ensure that you have logged in with the university Google account.

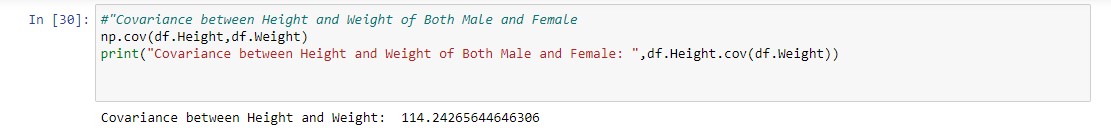
Using the data find two values for covariance between height and weight. There should be one value for male and female.

(Hint: Make sure to store all intermediate values like averages and counts as they might be useful for the extra credit)

**Answer:**

Graphical user interface

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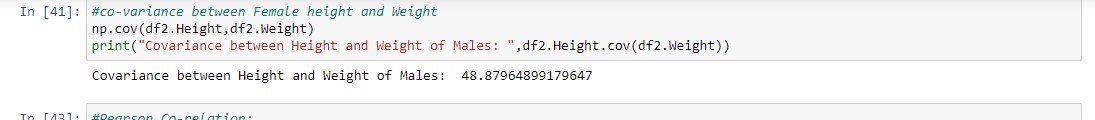
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**Graphical user interface, text, application, email

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**Problem 3b:**

Find the correlation between height and weight for Males and Females

**Answer:**

Graphical user interface

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Chart, histogram

Description automatically generated

**Chart, histogram

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Graphical user interface

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Chart

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Graphical user interface

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