| | <pre>he specified distribution r n])): iform': tats.uniform.rvs(size=size) samp.mean()</pre> | | | | Py version >=1.16.5 an | | |
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| The height of children is repetitive heights should therefore and the nutrition have led to height step 1 (1pt): Load the data he had assets | reditary Probabilities related to their parents: tall parents get larger and larger. But this is no nt increases overall, but the standar | S (3pts) s tend to have tall children of the case! The distribution and deviation remains state out , into an array. Use no | on of heights of children at follon. Something does not a | ll parents and small child ixed age is well describe dd up! Francis Galton tho | d by a Normal and has been | ı remarkable stable over hui 385. | lard deviation in childre ndreds of years (impro |
| Father: The fathe Mother: The moth Gender: The gend Height: The heigh Kids: The number Make a visualization of the Tip: The matplotlib. import pandas as pd | _ | (F) oly fully grown) nt's height (pick either fath | er or mother), and Y , the $lpha$ | children's height (pick eitl | ner son or daughter). | | |
| <pre>#select for only mot fheight = data[data. fmother = data[data. ax = plt.hist2d(fhei plt.ylabel('Mothers plt.xlabel('Daughter plt.colorbar(label='</pre> | <pre>hers and daughters Gender == 'F']['Height'].va Gender == 'F']['Mother'].va ght, fmother, density=True) height (inches)') s height (inches)')</pre> | alues) |)4 | | | | |
| Mothers height (inches) | | - 0.0 - 0.0 | tuod 01 | | | | |
| Step 2 (2pts) Select X and Y such that means. Answer these three ques • What do you find? • With the same data, | Daughters height (inches) It they have the same gender. Novetions: can you think of a way to test whe connection, what does that mean f | other tall parents are caus | I distribution $p(y \mid x > 71)$ ally responsible for their ch | | $Tp(y\mid x>66)$ (for mother | s and daughters). Plot their l | histograms and compu |
| <pre># SONS PLOTTING Ysons = data[data['G Xdads = data[data['G fig, ax = plt.subplo joints, xedge, yedge #get p(x>71) px71 = len(Xdads[Xda #get conditional by py_x71 = np.sum(join py_x71 /= py_x71.sum ax[0].bar(yedge[:-1] ax[0].set_xlabel('He ax[0].set_ylabel('P(</pre> | <pre>ender'] == 'M']['Height'].v ender'] == 'M']['Father'].v ts(1,2,figsize=(10, 5),shar = np.histogram2d(Xdads, Ys ds>71]) / len(Xdads) dividing joint / p(x) ts[:,xedge[:-1]>71]/px71,1) () , py_x71, align='center') ight of son (in)')</pre> | values values rex=True) sons, density=True, b | | | | | |
| <pre># Plot the true mean true_mean = data[(da ax[0].axvline(true_m ax[0].legend() # DAUGHTER PLOTTING Ygirls = data[data[' Xmoms = data[data['G joints, xedge, yedge #get p(x>66) px66 = len(Xmoms[Xmoms]) #get conditional by</pre> | | cher>71)].Height.mear L='Son true mean heig rls,density= True ,bins | ght') | | | | |
| <pre>ax[1].set_xlabel('He ax[1].set_ylabel('P(ax[1].axvline(66,c=' # Plot the true mean true_mean = data[(da ax[1].axvline(true_m ax[1].legend() <matplotlib.legend.l< pre=""></matplotlib.legend.l<></pre> | <pre>,py_x66,align='center') ight of daughter (in)') y x>66)') r',ls='', label='Mother m</pre> | cher>66)].Height.mear | height') | er minimum height nter true mean height | | | |
| 0.150 - 0.125 - $(\frac{1}{2} \times \frac{1}{2})$ 0.100 - 0.075 - 0.050 - | | 0.150 - 0.125 - $(99 \times \frac{1}{2})$ 0.100 - 0.075 - | | | | | |
| 2. With the same data, ca | Height of son (in) or of the distribution of childrens he on you think of a way to test wheth relationship from observational da | eights seems to be the sa er tall parents are causall | y responsible for their child | imum cutoff for the parer | | | d obscure any causal c |
| 3. If there is no causal co If you condition on an ext Problem 3: Lik Leveraging again scipy In detail, choose Student | nnection, what does that mean for reme event, the conditional distribution vs Prior (1pt). stats, reproduce the figure from the statistic to outliers in the condition is more robust to outliers in the condition. | ution of the other variable t) om this tweet. To see it he reedom and the standard | e would be LESS extreme. The would be LESS extreme. The would be LESS extreme. | | | | |
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