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is the Zipf probability mass function. $= \prod_i^n f(s_{data},i)$ $_{data} \text{ represents the fitted s parameter for the sample, and not the bootstrapped parameter.}$ $\lim_{i} -2log(\frac{f(s_{bootstrap},i)}{f(s_{data},i)}) \approx \chi^2(n)$ e null hypothesis has 1 parameter and the alternative hypothesis has 1 parameter (1-1 = 0). $\operatorname{scipy.stats} \text{ import } \operatorname{chi2}$ $\operatorname{trap}_s = 1.232$ $\operatorname{statistics} = []$ $\operatorname{ues} = []$ 1 word_frequency_temp, frequency_values_temp, temp_words $\operatorname{eg_log_likelihood_temp(s)} :$
e null hypothesis has 1 parameter and the alternative hypothesis has 1 parameter (1-1 = 0). scipy.stats import chi2 trap_s = 1.232 statistics = [] ues = [] 1 word_frequency_temp, frequency_values_temp, temp_words eg_log_likelihood_temp(s):
<pre>l word_frequency_temp, frequency_values_temp, temp_words eg_log_likelihood_temp(s):</pre>
= sum(frequency_values_temp) robs = np.log(frequency_values_temp**(-1 * s) / np.sum(np.arange(1, N+1)**(-1 * s))) ummed = sum(probs * frequency_values_temp) eturn -1 * summed in tqdm(range(0, 100)):
<pre>ample = resample(list_to_sample_from, replace=True, n_samples=1000) emp_words = [word for words in sample for word in words] ord_frequency_temp = Counter(temp_words) ord_frequency_temp = word_frequency_temp.most_common() requency_values_temp = [x[1] for x in word_frequency_temp] requency_values_temp = np.array(frequency_values_temp) _best = minimize_scalar(neg_log_likelihood_temp, [0, 6.0]) og0 = np.log(np.array([zipf.pmf(n, bootstrap_s) for n in np.arange(1, len(frequency_values_temp) +</pre>
<pre>est_statistics.append(D) _values.append(1 - chi2.cdf(D, 1)) el word_frequency_temp, frequency_values_temp, temp_words et style('white')</pre>
<pre>et_style('white') axes = plt.subplots(1, 1, figsize=(8, 5), dpi = 50) et(font_scale = 2) istplot(p_values, ax = axes) itle('Bootstrap of the p values.') ight_layout() how()</pre>
Bootstrap of the p values.
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tion 5 It we have a distribution that describes Donald Trump's "speaking" (writing) quality, get the top 20% of words in this Ition. By doing so, we avoid very common words (called stop words) such as "the", "for", "and", but we also avoid word rarely used and therefore do not represent the level of speaker well. Give us 10 words that fall in this section. er 5
<pre>put the words in a dataframe and use Panda's percentile function to get the top 20%. ords = [word for templist in tweets[['words']].values.tolist() for words in templist for word in wfrequency = Counter(all_words)</pre>
<pre>frequency = Counter(all_words) frequency = word_frequency.most_common() ency_values = [x[1] for x in word_frequency] frequency = [x[0] for x in word_frequency] ntile = pd.DataFrame({'words':word_frequency, 'frequency':frequency_values}) ntile.head() words frequency the 12968</pre>
<pre>frequency = Counter(all_words) frequency = word_frequency.most_common() ency_values = [x[1] for x in word_frequency] frequency = [x[0] for x in word_frequency] ntile = pd.DataFrame({'words':word_frequency, 'frequency':frequency_values}) ntile.head() words frequency</pre>
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