

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from scipy.stats import norm
from sklearn.linear_model import LinearRegression
```

```
In [2]: df = pd.read_csv("4.csv")
```

```
In [3]: df = df.set_index('(mm)')
df.head(2)
```

Out[3]:

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5	Specimen 6	Specimen 7	Specimen 8	S
(mm)									
9.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	
9.2	5529.0	5630.0	8502.0	9063.0	6109.0	6840	6078.0	6366.0	

**a**

Obtained results for optimal  $\theta$  and  $\beta$  from an Excel add-in (real-statistics) for censored TTF data for Weibull data (<https://www.real-statistics.com/distribution-fitting/distribution-fitting-via-maximum-likelihood/weibull-with-multi-censored-data/>) (<https://www.real-statistics.com/distribution-fitting/distribution-fitting-via-maximum-likelihood/weibull-with-multi-censored-data/>)

```
In [4]: t = 166420.226
b = 1.07888043
```

```
In [5]: alphas = [.1, .25, .5, .75, .9]
for a in alphas:
    print(a, np.exp(((np.log(-np.log(1-a)))/b)+np.log(t)))

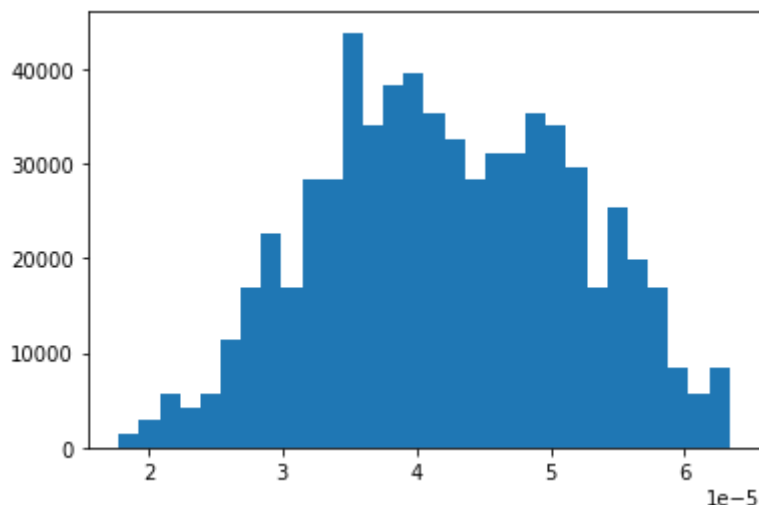
0.1 20669.93774535842
0.25 52442.03519397936
0.5 118486.62598664196
0.75 225263.0986931237
0.9 360528.0322513916
```

**b**

```
In [4]: values = []
        for index, row in df.iterrows():
            for col in df.columns:
                if np.isnan(row[col]):
                    continue
                values.append((index-9)/row[col])
```

<ipython-input-4-c96cccd5ba18>:6: RuntimeWarning: invalid value encountered in double\_scalars  
 values.append((index-9)/row[col])

```
In [5]: plt.hist(values, density=True, bins=30) # density=False would make counts
        plt.show()
```



```
In [6]: datasets = []
        for col in df.columns:
            temp = df[col].dropna()
            temp2 = [[i] for i in temp.tolist()]
            datasets.append((np.array(temp2), list(temp.index)))
        paras = []
        for ds in datasets:
            reg = LinearRegression().fit(ds[0], ds[1])
            paras.append((reg.intercept_, reg.coef_[0]))
```

```
In [7]: b0 = [i[0] for i in paras]
        b1 = [i[1] for i in paras]
        mu1 = np.mean(b0)
        mu2, sigma2 = np.mean(b1), np.std(b1)
```

```
In [8]: print(mu1)
        print(mu2, sigma2)
```

8.397935719833548  
 5.273142846989178e-05 8.96857984216601e-06

```
In [9]: alphas = [.1,.25,.5,.75,.9]
        for a in alphas:
            print(a, ((15-mu1)/mu2)/(1-(norm.ppf(a)*sigma2/mu2)))

0.1 102795.66099119555
0.25 112316.97835407344
0.5 125201.69606131667
0.75 141425.69116837715
0.9 160097.66131363285
```

## C

```
In [10]: datasets = []
        for col in df.columns:
            temp = df[col].dropna()
            temp2 = [[i] for i in temp.tolist()]
            datasets.append((np.array(temp2), list(temp.index)))
```

```
In [11]: paras = []
        for ds in datasets:
            reg = LinearRegression().fit(ds[0], ds[1])
            paras.append((reg.intercept_, reg.coef_[0]))
```

```
In [12]: paras
```

```
Out[12]: [(8.450164920576583, 6.049736997913594e-05),
          (8.393495930149058, 5.8396000329688914e-05),
          (8.326126086470293, 5.2720157664771053e-05),
          (8.581878706294306, 3.948956843744145e-05),
          (8.219714093847719, 5.936038054956756e-05),
          (7.934458348505408, 6.658446055109067e-05),
          (8.516418007102576, 5.566229060232148e-05),
          (8.31240549788686, 6.018848739924009e-05),
          (8.412326337331098, 5.649477009969021e-05),
          (8.206963892180443, 6.345300642150366e-05),
          (8.434316734321353, 4.812507103998807e-05),
          (8.555435717579321, 4.4691167712151454e-05),
          (8.449608113249457, 4.650482330749459e-05),
          (8.514525013632095, 3.555230309979747e-05),
          (8.661198398376644, 4.325156985449416e-05)]
```

```
In [13]: TTFs = [(15-x0)/x1 for x0,x1 in paras]
TTFs
```

```
Out[13]: [108266.44334592222,
113132.81787369522,
126590.55300946794,
162527.00517285083,
114222.41305361166,
106113.97303539251,
116480.68957886215,
111110.85842302749,
116606.78769104372,
107056.17418180294,
136429.58075268276,
144202.19055203637,
140854.03235356233,
182420.6709805208,
146556.5671476941]
```

```
In [14]: from scipy.stats import weibull_min
```

```
In [15]: shape, loc, scale = weibull_min.fit(TTFs, floc=0)
```

```
In [16]: b,t = shape,scale
b,t
```

```
Out[16]: (5.739259313272218, 138468.62033053272)
```

```
In [17]: for a in [.1,.25,.5,.75,.9]:
print(a, np.exp((np.log(-np.log(1-a))/b)+np.log(t)))

0.1 93554.39936058444
0.25 111448.2199840619
0.5 129902.35673642042
0.75 146577.74924038793
0.9 160126.5281687117
```

**d**

```
In [18]: datasets = []
for col in df.columns:
    temp = df[col].dropna()
    temp2 = [[i] for i in temp.tolist()]
    datasets.append((np.array(temp2),list(temp.index)))
paras = []
for ds in datasets:
    reg = LinearRegression().fit(ds[0], ds[1])
    paras.append((reg.intercept_,reg.coef_[0]))
```

```
In [19]: paras
```

```
Out[19]: [(8.450164920576583, 6.049736997913594e-05),
(8.393495930149058, 5.8396000329688914e-05),
(8.326126086470293, 5.2720157664771053e-05),
(8.581878706294306, 3.948956843744145e-05),
(8.219714093847719, 5.936038054956756e-05),
(7.934458348505408, 6.658446055109067e-05),
(8.516418007102576, 5.566229060232148e-05),
(8.31240549788686, 6.018848739924009e-05),
(8.412326337331098, 5.649477009969021e-05),
(8.206963892180443, 6.345300642150366e-05),
(8.434316734321353, 4.812507103998807e-05),
(8.555435717579321, 4.4691167712151454e-05),
(8.449608113249457, 4.650482330749459e-05),
(8.514525013632095, 3.555230309979747e-05),
(8.661198398376644, 4.325156985449416e-05)]
```

```
In [20]: b0 = [i[0] for i in paras]
b1 = [i[1] for i in paras]
```

```
In [21]: mu1 = np.mean(b0)
mu1
```

```
Out[21]: 8.397935719833548
```

```
In [22]: mu1 = np.mean(b0)
mu2,sigma2 = np.mean(b1), np.std(b1)
print(mu1)
mu2,sigma2
```

```
8.397935719833548
```

```
Out[22]: (5.273142846989178e-05, 8.96857984216601e-06)
```

```
In [23]: df.head(2)
```

```
Out[23]:
```

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5	Specimen 6	Specimen 7	Specimen 8	S
(mm)									
9.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	
9.2	5529.0	5630.0	8502.0	9063.0	6109.0	6840	6078.0	6366.0	

```
In [24]: res = []
for index, row in df.iterrows():
    for col in df.columns:
        if np.isnan(row[col]):
            continue
        res.append(index-(mu1+mu2*row[col]))
```

```
In [25]: eps = np.std(res)
eps
```

```
Out[25]: 0.6338226825013553
```

```
In [26]: alphas = [.1,.25,.5,.75,.9]
ts = [((15-mu1)/mu2)/(1-(norm.ppf(a)*sigma2/mu2)) for a in alphas]
ts
```

```
Out[26]: [102795.66099119555,
          112316.97835407344,
          125201.69606131667,
          141425.69116837715,
          160097.66131363285]
```

```
In [ ]:
```

```
In [ ]:
```

```

In [27]: B = 50000
n = 15
Fs = []
timepoints = np.arange(0,121000,120000/35)
for it in range(B):
    if it%100 == 1:
        print(it)
    df2 = pd.DataFrame(index=timepoints)
    mu2s = np.random.normal(mu2, sigma2, n)
    for i in range(n):
        df2[str(i+1)] = df2.index*mu2s[i]+mu1+np.random.normal(0,eps,36)

    datasets = []
    for col in df2.columns:
        temp = df2[col]
        temp2 = [[i] for i in temp.index]
        datasets.append((np.array(temp2),list(temp.tolist()))))
    paras = []
    for ds in datasets:
        reg = LinearRegression().fit(ds[0], ds[1])
        paras.append((reg.intercept_,reg.coef_[0]))
    b0 = [i[0] for i in paras]
    b1 = [i[1] for i in paras]
    mu1_ = np.mean(b0)
    mu2_,sigma2_ = np.mean(b1), np.std(b1)
    Fs.append([(time-(15-mu1_)/mu2_)/(sigma2_*time/mu2_) for time in ts
])

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In [28]: `mu1_,mu2_,sigma2_`

Out[28]: (8.339634638736586, 5.441128552842717e-05, 7.4960437653152e-06)



In [29]:

Fs

```
Out[29]: [[-1.4191510312291276,  
           -0.6550661610866064,  
           0.19388760302909375,  
           1.042841367144795,  
           1.8069262372873158],  
          [-1.332602117660454,  
           -0.8502674881192323,  
           -0.3143586966835458,  
           0.2215500947521412,  
           0.7038847242933628],  
          [-0.8133559492924693,  
           -0.29165601339884695,  
           0.28799049135814214,  
           0.8676369961151318,  
           1.389336932008754],  
          [-0.9341294595387019,  
           -0.4382480485812721,  
           0.11271220051879316,  
           0.6636724496188591,  
           1.1595538605762887],  
          [-0.9871618591029364,  
           -0.4507780876696721,  
           0.14518322443418885,  
           0.7411445365380502,  
           1.2775283079713144],  
          [-1.4529404663016363,  
           -0.9586480258059792,  
           -0.40945323824991653,  
           0.13974154930614668,  
           0.6340339898018033],  
          [-1.4273376120635162,  
           -0.8999606672379356,  
           -0.3140065934005571,  
           0.27194748043682193,  
           0.7993244252624023],  
          [-1.066139197555255,  
           -0.47231628441382123,  
           0.1874640842715816,  
           0.8472444529569849,  
           1.4410673660984186],  
          [-0.4015033190262472,  
           0.03747532915060163,  
           0.5252124775993657,  
           1.0129496260481303,  
           1.451928274224979],  
          [-1.113287416565477,  
           -0.45370070896155984,  
           0.2791480098942144,  
           1.0119967287499894,  
           1.6715834363539064],  
          [-1.6208080263192453,  
           -0.9702098115540317,  
           -0.2473479608163513,  
           0.4755138899213297,  
           1.1261121046865432],  
          [-1.1152398914571355,  
           -0.5591209629758557,
```

0.05876754140208128,  
0.6766560457800188,  
1.2327749742612986],  
[-1.5197945753860103,  
-0.6473670003046834,  
0.3219633747955003,  
1.2912937498956851,  
2.1637213249770118],  
[-1.0044478821728442,  
-0.5117761183879567,  
0.03561797967956041,  
0.5830120777470781,  
1.0756838415319654],  
[-1.3863811501446324,  
-0.7388535834668073,  
-0.019403445686585686,  
0.7000466920936366,  
1.3475742587714614],  
[-1.9726186503142913,  
-1.2377055704981585,  
-0.421163783338581,  
0.39537800382099736,  
1.1302910836371298],  
[-1.2928736027863708,  
-0.6459197457714674,  
0.07289295892130702,  
0.791705663614082,  
1.4386595206289852],  
[-1.5592946308161795,  
-0.9547445517067269,  
-0.28304552282701273,  
0.3886535060527021,  
0.9932035851621542],  
[-1.4240413436628407,  
-0.7735077287376977,  
-0.05071765311235421,  
0.6720724225129899,  
1.3226060374381328],  
[-1.6814822699631211,  
-0.9023700643864928,  
-0.03671983960270627,  
0.8289303851810811,  
1.6080425907577092],  
[-1.3225546973418936,  
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0.09186589930863842,  
0.8362855703981898,  
1.5062864959591704],  
[-1.0570054581558532,  
-0.5720243475199361,  
-0.0331751234506554,  
0.5056741006186258,  
0.9906552112545425],  
[-1.2432782188185034,  
-0.650628725651071,  
0.007847888251657954,  
0.6663245021543875,

1.2589739953218195],  
[-1.5430882415285956,  
-0.8528030642545947,  
-0.0858461168532823,  
0.681110830548031,  
1.3713960078220313],  
[-1.5785432550010576,  
-0.7157210080231178,  
0.24293715019700163,  
1.201595308417122,  
2.0644175553950617],  
[-1.6896289510411193,  
-0.9395810975337252,  
-0.10622347800222919,  
0.7271341415292675,  
1.4771819950366614],  
[-1.4328033228070878,  
-0.8359331866157854,  
-0.172767131890292,  
0.49039892283520214,  
1.0872690590265044],  
[-1.400805950701242,  
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In [36]: F = [[norm.cdf(j) for j in i] for i in Fs]
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In [37]:

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```

```
In [44]: norm.ppf(.975)
```

```
Out[44]: 1.959963984540054
```

```
In [46]: norm.cdf(1.959963984540054)
```

```
Out[46]: 0.975
```

```

In [66]: F_array = np.array(newF)
# B
alpha = 0.1
for i,(a,t) in enumerate(zip(alphas,ts)):
    curr_F = F_array[:,i]
    q = sum(curr_F<a)/B
    l = B*norm.cdf(2*norm.ppf(q)+2*norm.ppf(alpha/2))
    u = B*norm.cdf(2*norm.ppf(q)+2*norm.ppf(1-alpha/2))
    # print(q)
    # print(norm.ppf(q))
    print(t)
    print(a)
    print(curr_F[round(u)],curr_F[round(l)])
    print(l,u)

```

```

102795.66099119555
0.1
0.2701215037289606 7.75611207116247e-05
26.362267698833744 49976.15784299642
112316.97835407344
0.25
0.4906165892037022 0.016757603311460752
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125201.69606131667
0.5
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141425.69116837715
0.75
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160097.66131363285
0.9
0.999011551338683 0.8617799003732357
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```

In [51]:

```

Out[51]: array([3.51532829e-06, 1.61140396e-05, 3.40294152e-04, ...,
                2.14385681e-01, 3.82396012e-02, 3.99804596e-01])

```

In [ ]: