

ASSIGNMENT-3

NNAM:M.Gowsalya

CLASS: 4th year ECE

SUBJECT: IBM

REGISTER NO: 611419106027

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" <td>0.5195</td>\n",

```

```
"    <td>0.3600</td>\n",
"    <td>0.4400</td>\n",
"    <td>13</td>\n",
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"  <tr>\n",
"    <th>3169</th>\n",
"    <td>M</td>\n",
"    <td>0.560</td>\n",
"    <td>0.450</td>\n",
"    <td>0.155</td>\n",
"    <td>0.9125</td>\n",
"    <td>0.3595</td>\n",
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"    <td>0.3500</td>\n",
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```

```
],
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```
"  Sex Length Diameter Height Whole weight Shucked weight \\n",
"3980 F 0.525 0.410 0.115 0.7745 0.4160 \n",
"2419 F 0.465 0.360 0.120 0.4765 0.1920 \n",
"3288 F 0.605 0.475 0.145 1.0185 0.4695 \n",
"503 F 0.600 0.505 0.190 1.1290 0.4385 \n",
```

```

"798 M 0.520 0.420 0.160 0.7450 0.2550 \n",
"3881 F 0.565 0.455 0.130 1.0580 0.4390 \n",
"1234 I 0.375 0.290 0.095 0.2130 0.0960 \n",
"2216 I 0.330 0.260 0.080 0.1900 0.0765 \n",
"2200 F 0.650 0.515 0.195 1.4005 0.5195 \n",
"3169 M 0.560 0.450 0.155 0.9125 0.3595 \n",
"\n",
" Viscera weight Shell weight Rings \n",
"3980 0.1630 0.1800 7 \n",
"2419 0.1125 0.1600 10 \n",
"3288 0.2250 0.2700 15 \n",
"503 0.2560 0.3600 13 \n",
"798 0.1570 0.2885 11 \n",
"3881 0.2645 0.3000 10 \n",
"1234 0.0410 0.0610 5 \n",
"2216 0.0385 0.0650 7 \n",
"2200 0.3600 0.4400 13 \n",
"3169 0.2710 0.3500 10 "
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```

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"from matplotlib import pyplot as pyplot\n",
"%matplotlib inline\n",
"matplotlib.rcParams['figure.figsize']=(11,6)\n",
"df=pd.read_csv(\"/Users/ELCOT/Desktop/Assignment_3/abalone.csv\")\n",
"df.sample(10)"
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"      <th>Length</th>\n",
"      <th>Diameter</th>\n",
"      <th>Height</th>\n",
"      <th>Whole weight</th>\n",
"      <th>Shucked weight</th>\n",
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```

```

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"     <td>0.265</td>\n",

```



MAHENDRA ENGINEERING COLLEGE FOR WOMEN

ASSIGNMENT-3

\n",

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"    <td>0.0995</td>\n",
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# MAHENDRA ENGINEERING COLLEGE FOR WOMEN

## ASSIGNMENT-3

\n",

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" <td>0.0395</td>\n",

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" <td>7</td>\n",

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" Sex Length Diameter Height Whole weight Shucked weight Viscera weight \\n",

"0 M 0.455 0.365 0.095 0.5140 0.2245 0.1010 \n",

"1 M 0.350 0.265 0.090 0.2255 0.0995 0.0485 \n",

MAHENDRA ENGINEERING COLLEGE FOR WOMEN

ASSIGNMENT-3

\n",

"2 F 0.530 0.420 0.135 0.6770 0.2565 0.1415 \n",

"3 M 0.440 0.365 0.125 0.5160 0.2155 0.1140 \n",

"4 I 0.330 0.255 0.080 0.2050 0.0895 0.0395 \n",

"\n",

" Shell weight Rings \n",

"0 0.150 15

"1 0.070 7 \n",

"2 0.210 9 \n",

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"4 0.055 7 "

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"import numpy as np\n",

"headers=['Sex','Length','Diameter','Height','Whole weight','Shucked weight','Viscera weight','Shell weight','Rings']\n",

"import seaborn as sns\n",

"df.head()"

MAHENDRA ENGINEERING COLLEGE FOR WOMEN

ASSIGNMENT-3

\n",

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ASSIGNMENT-3

```

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        " ...\n",
        " ['M' 0.6 0.475 ... 0.5255 0.2875 0.308]\n",
        " ['F' 0.625 0.485 ... 0.531 0.261 0.296]\n",
        " ['M' 0.71 0.555 ... 0.9455 0.3765 0.495]]\n",
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```

ASSIGNMENT-3

```

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```

## MAHENDRA ENGINEERING COLLEGE FOR WOMEN

### ASSIGNMENT-3

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## MAHENDRA ENGINEERING COLLEGE FOR WOMEN

### ASSIGNMENT-3

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MAHENDRA ENGINEERING COLLEGE FOR WOMEN

ASSIGNMENT-3

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# MAHENDRA ENGINEERING COLLEGE FOR WOMEN

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```

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```
"from scipy.sparse.construct import random\n",
"x=df.iloc[:, 1:2].values\n",
"y=df.iloc[:,2].values\n",
"from sklearn.model_selection import train_test_split\n",
"x_train, x_test, y_train, y_test=train_test_split(x,y,test_size=0.2,random_state=0)\n",
"print('Row count of x_train table'+ '-' +str(f"{len(x_train):,}"))\n",
"print('Row count of y_train table'+ '-' +str(f"{len(y_train):,}"))\n",
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"model=LinearRegression()"
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```

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```

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```

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MAHENDRA ENGINEERING COLLEGE FOR WOMEN

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ASSIGNMENT-

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