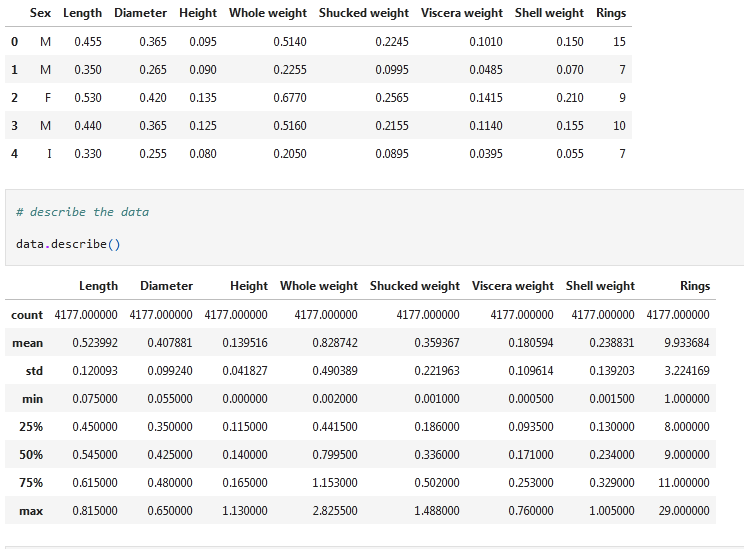
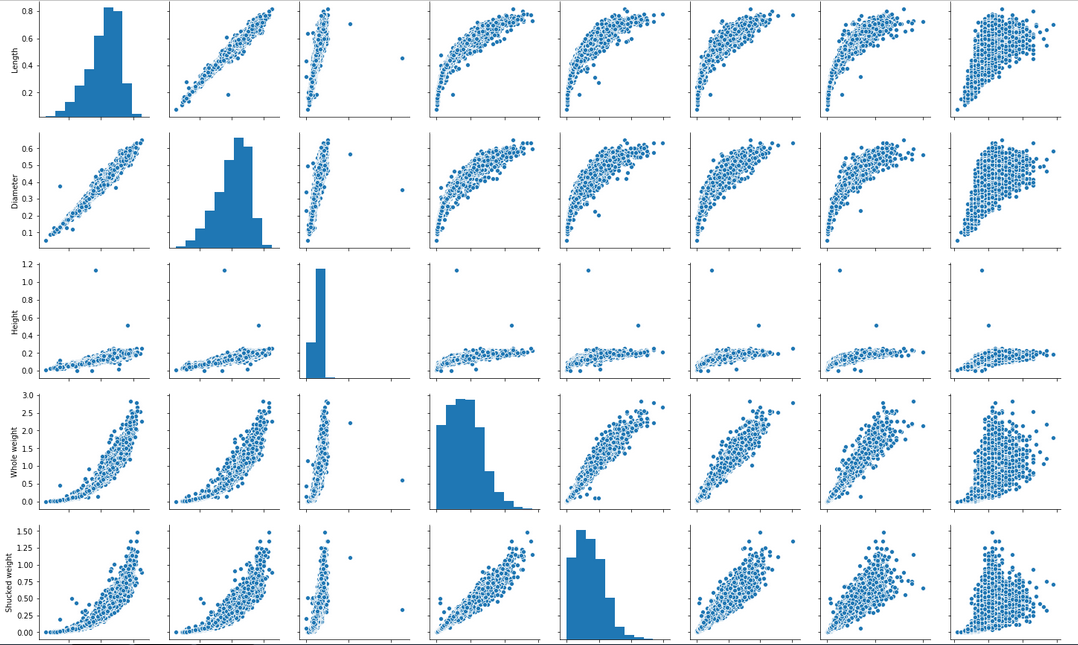
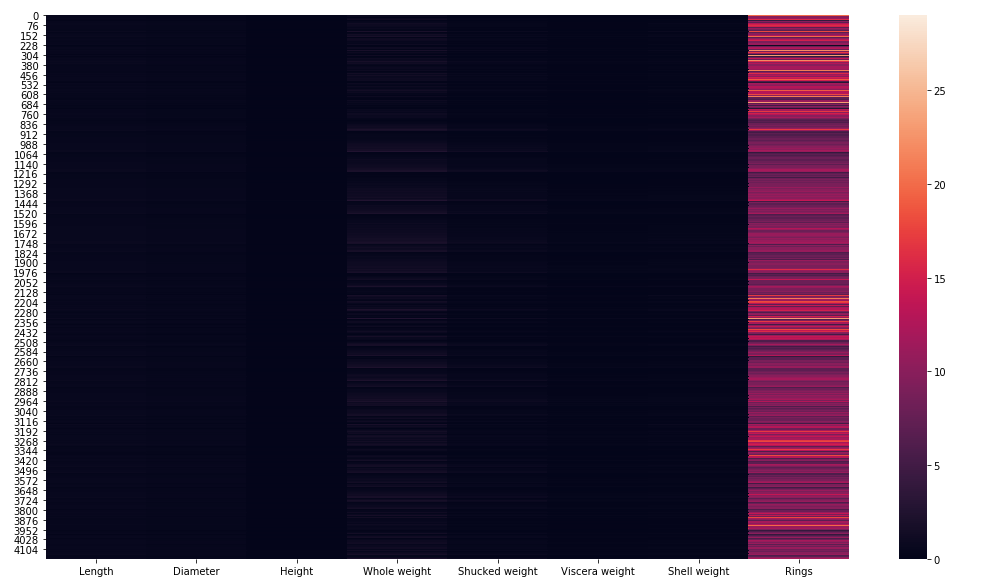
**Problem Statement: Abalone Age Prediction**

****

****

****

**Program:**

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"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",

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"Data columns (total 9 columns):\n",

"Sex 4177 non-null object\n",

"Length 4177 non-null float64\n",

"Diameter 4177 non-null float64\n",

"Height 4177 non-null float64\n",

"Whole weight 4177 non-null float64\n",

"Shucked weight 4177 non-null float64\n",

"Viscera weight 4177 non-null float64\n",

"Shell weight 4177 non-null float64\n",

"Rings 4177 non-null int64\n",

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ERERE\nRO3CiWYiIiIiIiIiIiIiahdONBMRERERERERERFRu3CimYiIiIiIiIiIiIjahRPNRERERERERERE\nRNQunGgmIiIiIiIiIiIionbhRDMRERERERERERERtQsnmomIiIiIiIiIiIioXTjRTERERERERERE\nRETtwolmIiIiIiIiIiIiImoXTjQTERERERERERERUbtwopmIiIiIiIiIiIiI2oUTzURERERERERE\nRETULpaubgBRR9E0ieoGP/zBEGwWFVluGxRFdHWziFqNMdx6fK+IqDXYV1CyMeaIiNqG/Se1FWOn\ne+FEM/UImiax72gd5mzYhcoaL3IznVh38ygM65/GDoZSAmO49fheEVFrsK+gZGPMERG1DftPaivG\nTvfD0hnUI1Q3+I2OBQAqa7yYs2EXqhv8XdwyotZhDLce3ysiag32FZRsjDkiorZh/0ltxdjpfjjR\nTD2CPxgyOhZdZY0X/mCoi1pEdHYYw63H94qIWoN9BSUbY46IqG3Yf1JbMXa6H040U49gs6jIzXRG\nHcvNdMJmUbuoRURnhzHcenyviKg12FdQsjHmiIjahv0ntRVjp/vhRDP1CFluG9bdPMroYPS6PFlu\nWxe3jKh1GMOtx/eKiFqDfQUlG2OOiKht2H9SWzF2uh9uBkg9gqIIDOufhhcWjOdOo5SSGMOtx/eK\niFqDfQUlG2OOiKht2H9SWzF2up8umWgWQlwJ4FEAKoA/SCmXmTznOgD3A5AA9kgpb0pqIynlKIpA\ndpq9q5tB1GaM4dbje0VErcG+gpKNMdc+gxa/0tVNIKIuwv6T2oqx070kfaJZCKECeAzAFQAqAXwk\nhHhJSlke8Zx8AP8CYLyUskYIkZPsdhIRERERERERERFR63RFRvMYAF9IKb8CACHEswCmACiPeM4c\nAI9JKWsAQEp5LOmtpB5D0ySqG/xcRkEpgzF7ZnyPiKi12F/Q2WC8EBElD/tcomg94TPRFRPNAwFU\nRHxdCeDSmOcMBQAhxHsIl9e4X0r5utmLCSHmApgLAOedd16HN5ZSm6ZJ7DtahzkbdqGyxmsUhh/W\nP63LP6yMXTLTnWNW19WxmwrvEXVPXR27lHw9pb9g7CZHT4mX7oSxS6mKsdv52Od2DsZu6uopnwml\nqxuQgAVAPoAJAG4EsE4IkWH2RCnlE1LKUVLKUdnZ2UlsIqWC6ga/8SEFgMoaL+Zs2IXqBn8Xt4yx\nS+a6c8zqujp2U+E9ou6pq2OXkq+n9BeM3eToKfHSnTB2KVUxdjsf+9zOwdhNXT3lM9EVGc3fAsiL\n+Dq3+VikSgB/lVIGABwUQuxHeOL5o+Q0kbq7lpYTRH4PALI9duODCoQ/rPr3iLpKZJwKIaAKQFEU\naJoWFa8AYzaWPxhCtseOFVMLcU4fB0JS4sjJJmia1tVNI6JuRNMk/MEQVk4rgiYlQpqEVVVQ6w2w\nvyBT/mCoQ8/BsePVTKcVNd5ASi+HJSJqydks+z9Tn9sTSghQ52hNbKRi/HT0OKSrdMVE80cA8oUQ\ngxGeYL4BwE0xz/lPhDOZ1wsh+iFcSuOrpLaSuq2WlhMAiPveiqmFeOj1fdhdUQsAyM10wmZRu/JP\noF7OLIaXlxbiqZ0H8c//NBSTCnLwZvnp0vSM2WhOm4r7ry5Aoz+EmX/60HgP184sRnaao9sPIIio\n80X2s9keO+69chgWP/939hfUIptFRW6mM+oir63n4Nhz/aSCHCycOBTzN5Wl9HJYIqJEznbZf0t9\nbk8pIUAdrzWxkarx05HjkK7UrtIZQoh/bs2xSFLKIIA7AbwB4DMAW6WUnwohfiOEuLr5aW8AqBZC\nlAN4G8AiKWV1e9pKqU/TJKrqfDh80ptwOYHZUoNF2/Zi4cR8ADA6mCy3rcv+Dup99Nj9tqYRVXU+\nHG/wxcXpfdv3orQ4D/M2luEXPypAbqYTAGPWTFCTONEQwKJte6Pew3kby3C8wdfFrSOijhbbh2qa\nPOPPRI4H5k8YYtpfpNoyROp8WW4b1t08KuocvHZGMVQFrYq7SLFj0tLiPGOSGUjd5bBERIkkWvaf\naHxu1ufq1z09pYQAdbxEsXHkVFOL19upED8tfSZSSXszmm8B8GjMsVkmx6JIKV8F8GrMsV9G/FsC\n+FnzgyjqjtTKaUUtLicw+96QHA/eu++ylFkyQT2H2d3UTbddahqnGU4rKmu8UBWBFxaMT6llPskU\nCGpw2VTT97DRF4Lmlny/iHqItmakRC491PvWSKm4DJE6n6IIDOufhucXjEOjL4SDxxvwi//8BFX1\nvrPOhIpd/so4JKKeLtGy/0Tjc73PNbvu6SklBKjjJYqNf9R6MXXN+y1eb3f3+GnpM5FK2pTRLIS4\nUQjxXwAGCyFeini8DeBExzaRKPquVa03YNzh0enLCfSlBrHfc1pVDMx0ITvNnnIfUkptZndcDx5v\nMI1TPbZtFhXZaXbGrAlNkxBCoNEfMn0PDx5v6PZ3qonozFqziqklkeOBlsYNRLEURUBAYMYf/4rZ\nT36E3RW1bcqEih2TMg6JqKfSz9kAznp8rijC9Lon0XU9+0xKFBt6jLV0vZ0K8ZPoM5FK2lo6YyeA\nlQA+b/6v/rgHwA86pmlEp0XetVrzzpdYXlpoupygpyw1oJ7D7I7rqh0H8Pj0kVFxury0ENvLKhiv\nLdAzG+9/6RNkuq1YMTW6H1g5rQirdhzo9neqiahl+mf9mtXvobLG26aMlMjxwJp3vozrL9jXUks6\nIpMudky6vawCa2YUMw6JqEeJPGff+cxu02uctozPeV1PiWQ6rXHn0+WlhVjzzpfGc1btOIC1POd2\nmTaVzpBSfg3gawBjO7Y5RGGxO4RaLQpyM53I9tgxf8IQ9HFY8OTsMVAE8HV1I/r3OX2npycsNaDU\nFRu7DpuC9bNGw2VTUesNYM07X6Kq3od6XxBLpwzHd3I8UBUBt2lSSAAAIABJREFUVQAPXlPIeG2B\nnh2e7bHD6w9hUD83Ns8pgT+k4XCtF8te+xxV9b6UuFNNRIl3AzdbxZRoU5RErxG79NBpU/H8gnEI\nBDWODXqgjt5ZXghhGndCtP41zZa/ZjqtcWNUAKiq83HcSkQpKfKcne2xo4/Tio23jUFIkzhysgkP\nv7Evanze2v66p5QQoLPTmvio8Qawasd+LJlcgAynFX3dNqx443Psrqg1nlNV78OADEfcObgjxwqU\nWLtqNAshrgWwHEAOANH8kFLKPh3QNuqlzOoxbrh1DDbcOgZHTzUZG/pEZjD+/qYRgDv88/pSA6Jk\nS7TD/JIXPzFidsXUQjhtKn79Ujl2V9Tivfsuw7kZzjO/OMEfDCHbY8fPfzAsqh9YMbUQK9/cj6p6\nH9bMKEam09rVTSWiM2ip9rLZKqb7tu+Nel6W23bG+s0cD/QOnbGzvCoQF3fLSwuhnuXLmcVg5Ned\n0XYiomTSz9kj8jLw8x8Mw/Q//DWq38xOs+Hfrv1uq87bsXge711aGx/+YAhvlh/Dm+XHAMCIvfLD\ndVE/l+E8PZHM821ytXczwIcA/FhK+VlHNIYIMK9pe/OfPsRz88bG7Rp/z3N78OTsMXDamMFIXa81\nO8wv2rYXv73+EuyuqE2ZOlHdhc2iYuHEfOPCHzj9nm6eU4KmQAjbdn2D/t/7DgelRN1cZH85Ii8D\n8ycMQYMviCOnmuC0qUY26e6KWjz8xj4snTIcQ3I8cFpPZ6BU1ZnvKP7CgvHsA3qRRLvPn00cmK2k\ne2rnQSNbqtYbwFM7D+LBawq7XdspeQYtfuWsf+bQsh91QkuIulZknymEwKSCHJQW58WN0e/bvhdb\n543FOX0cPG/TGbX2nKjXaNaft7uiFu/uO4otc0sQ1CSsqoIcT3RtY55vk6u9E81HOclMHS22Lp5+\nAeoPaab18gSAU94gJCRCGrgslrqMnnG77Nrv4px0B6yqYhqzmW4bJhXk4O4rhiHTaeWS2VbKdFqR\nn+PBymlFRhkSfZMmTUrUNgZwVeG50DStq5tKRGcQmwF13/a9yPbYsXBiPgY3l8VZ+vKnqKrzh49l\nu6EKIBAK4cipJuR47NyRngC0rp5yS0txE2U5Lb7qItz8pw+jjsWeszOdVtR4Awm/PtM5nTFMRF0l\nUb94ptIFZn3mmhnFCGnStD8LaRKHT3phs6jQNPPrefZ5BLR8Tow9926ecyl8QQk9NC2qwPVPfJAw\nW5nn2+Rq00Rzc8kMANglhNgC4D8B+PTvSymf74C2US8VeYdKvwB9audBLL7qItN6ed+caMSqHQdw\n75XRy+m5FIKSzWlT8a8/vBB3b92Dyhov1s8abR6z1Y24/+rhyPHYcaCqPmqgtnZmMYblpMFiaete\nrT2Tpsm492p5aaFR9+2rqgY4rApsOF3/jZ99ou7LaVOxftZoDMpyYeafPjTK4kSWKlg7sxh2i4JZ\n6z+K+tw/tfMgFk4cipw0e4v1m4GOr91L3U9sZhMQX8e7peWyibKcnl8wDi/dOR5efwghKeGwqPim\nptGYfNbLY+krl2K/PtNYVNNkwlrQXO1ERJ0pUb+Yn+2JG2/H9mNmfeb8TWXYMrfEtD/TpMSJBj+8\nAQ39+9jx7NwSLH8tXE93RF4GFk7MR0hKVNX5eI7u5RKdz0OaNDaIzs10YsPsMWgMhKLOt6unj8S4\nC7KwtazSNFvZZlGNzHt9pdL2sgqebztJW2cyftz86AOgEcCkiGOTO6Zp1FtF7jA7f8IQ3Ld9L0qL\n87Dstc+wvLQQkwpysOm2Mfjzz76PzXNKkOGy4J5JQ+PKaszZsAvVDf4u/muoNwlq0phkBoDX/n4Y\nG24dg23zx2LtzGJMKsjB8tJCvPb3w9CkxNG6priB2ryNZfj2pBdHT3pRVeeDpsmu/JO6DbNB7X3b\n9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"from math import pi\n",

"\n",

"# Set data\n",

"df = pd.DataFrame({\n",

"'group': [i for i in range(0, 4177)],\n",

"'Sex': data['Sex'],\n",

"'Length': data['Length'],\n",

"'Diameter': data['Diameter'],\n",

"'Whole weight': data['Whole weight'],\n",

"'Viscera weight': data['Viscera weight'],\n",

"'Shell weight': data['Shell weight']\n",

"})\n",

" \n",

"# number of variable\n",

"categories=list(df)[1:]\n",

"N = len(categories)\n",

" \n",

"# We are going to plot the first line of the data frame.\n",

"# But we need to repeat the first value to close the circular graph:\n",

"values = df.loc[0].drop('group').values.flatten().tolist()\n",

"values += values[:1]\n",

"values\n",

" \n",

"# What will be the angle of each axis in the plot? (we divide the plot / number of variable)\n",

"angles = [n / float(N) \* 2 \* pi for n in range(N)]\n",

"angles += angles[:1]\n",

" \n",

"# Initialise the spider plot\n",

"ax = plt.subplot(111, polar=True)\n",

" \n",

"# Draw one axe per variable + add labels labels yet\n",

"plt.xticks(angles[:-1], categories, color='grey', size=8)\n",

" \n",

"# Draw ylabels\n",

"ax.set\_rlabel\_position(0)\n",

"plt.yticks([10,20,30], [\"10\",\"20\",\"30\"], color=\"grey\", size=7)\n",

"plt.ylim(0,40)\n",

" \n",

"# Plot data\n",

"ax.plot(angles, values, linewidth=1, linestyle='solid')\n",

"plt.title('Radar Chart for determing Importances of Features', fontsize = 20) \n",

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"data['Sex'] = le.fit\_transform(data['Sex'])\n",

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"data['Sex'].value\_counts()\n",

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"data = pd.get\_dummies(data)"

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"data = data.drop(['Rings'], axis = 1)\n",

"x = data\n",

"\n",

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"from sklearn.model\_selection import train\_test\_split\n",

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"x\_train, x\_test, y\_train, y\_test = train\_test\_split(x, y, test\_size = 0.2, random\_state = 0)\n",

"\n",

"# getting the shapes\n",

"print(\"Shape of x\_train :\", x\_train.shape)\n",

"print(\"Shape of x\_test :\", x\_test.shape)\n",

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"# RANDOM FOREST REGRESSOR\n",

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"from sklearn.ensemble import RandomForestClassifier\n",

"from sklearn.metrics import mean\_squared\_error\n",

"from sklearn.metrics import r2\_score\n",

"\n",

"model = RandomForestClassifier()\n",

"model.fit(x\_train, y\_train)\n",

"y\_pred = model.predict(x\_test)\n",

"\n",

"# evaluation\n",

"mse = mean\_squared\_error(y\_test, y\_pred)\n",

"rmse = np.sqrt(mse)\n",

"print(\"RMSE :\", rmse)\n",

"\n",

"# r2 score\n",

"r2 = r2\_score(y\_test, y\_pred)\n",

"print(\"R2 Score :\", r2)"

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"Requirement already satisfied: six in /usr/local/lib/python3.6/dist-packages (from eli5) (1.11.0)\n",

"Requirement already satisfied: jinja2 in /usr/local/lib/python3.6/dist-packages (from eli5) (2.10.1)\n",

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"#for purmutation importance\n",

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"\n",

"perm = PermutationImportance(model, random\_state = 0).fit(x\_test, y\_test)\n",

"eli5.show\_weights(perm, feature\_names = x\_test.columns.tolist())"

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