MODEL EVALUTION

Team ID	PNT2022TMID17480
Project Title	Early Detection Of Chronic Kidney Disease Using Machine Learning


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notebook</a>'\n",
"            + ' to learn more about interactive tables.';\n",
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       "array(['ckd', 'ckd\\t', 'notckd'], dtype=object)"
      ]
     },
     "metadata": {},
     "execution_count": 14
    }
   ]
  },
  {
   "cell_type": "code",
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    "for col in df:\n",
    "    unique=df[col].value_counts()\n",
    "    print(unique,\"\\n========================== \\n\")"
   ],
   "metadata": {
    "colab": {
```

```
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 },
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       "0      1\n",
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       "273    1\n",
       "272    1\n",
       "271    1\n",
       "      ..\n",
       "130    1\n",
       "129    1\n",
       "128    1\n",
       "127    1\n",
       "399    1\n",
       "Name: id, Length: 400, dtype: int64 \n",
       "======================== \n",
       "\n",
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"60.0   19\n",

"65.0   17\n",

"48.0   12\n",

"55.0   12\n",

"50.0   12\n",

"   ..\n",

"83.0   1\n",

"27.0   1\n",

"14.0   1\n",

"81.0   1\n",

"79.0   1\n",

"Name: age, Length: 76, dtype: int64 \n",

"========================= \n",

"\n",

"80.0   116\n",

"70.0   112\n",

"60.0   71\n",

"90.0   53\n",

"100.0   25\n",

"50.0   5\n",

"110.0   3\n",

"140.0   1\n",

"180.0   1\n",

"120.0   1\n",

"Name: bp, dtype: int64 \n",

"========================= \n",

"\n",

"1.020   106\n",

"1.010   84\n",

"1.025   81\n",

"1.015   75\n",

"1.005   7\n",

"Name: sg, dtype: int64 \n",

"========================= \n",

"\n",

"0.0   199\n",

"1.0   44\n",

"2.0   43\n",

"3.0   43\n",

"4.0   24\n",

"5.0   1\n",

"Name: al, dtype: int64 \n",

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"\n",

"0.0   290\n",

"2.0   18\n",

"3.0   14\n",

"4.0   13\n",

"1.0   13\n",

"5.0   3\n",

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"abnormal   47\n",
"Name: rbc, dtype: int64 \n",
"========================= \n",
"\n",
"normal   259\n",
"abnormal   76\n",
"Name: pc, dtype: int64 \n",
"========================= \n",
"\n",
"notpresent   354\n",
"present   42\n",
"Name: pcc, dtype: int64 \n",
"========================= \n",
"\n",
"notpresent   374\n",
"present   22\n",
"Name: ba, dtype: int64 \n",
"========================= \n",
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"99.0   10\n",
"93.0   9\n",

"100.0   9\n",

"107.0   8\n",

"131.0   6\n",

"   ..\n",

"288.0   1\n",

"182.0   1\n",

"84.0   1\n",

"256.0   1\n",

"226.0   1\n",

"Name: bgr, Length: 146, dtype: int64 \n",

"========================= \n",

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"46.0   15\n",

"25.0   13\n",

"19.0   11\n",

"40.0   10\n",

"50.0   9\n",

"   ..\n",

"176.0   1\n",

"145.0   1\n",

"92.0   1\n",

"322.0   1\n",

"186.0   1\n",

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"\n",

"1.2 40\n",

"1.1 24\n",

"0.5 23\n",

"1.0 23\n",

"0.9 22\n",

" ..\n",

"3.8 1\n",

"12.2 1\n",

"9.2 1\n",

"13.8 1\n",

"0.4 1\n",

"Name: sc, Length: 84, dtype: int64 \n",

"========================= \n",

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"135.0 40\n",

"140.0 25\n",

"141.0 22\n",

"139.0 21\n",

"138.0 20\n",

"142.0 20\n",

"137.0 19\n",

"150.0 17\n",

"136.0 17\n",

"147.0 13\n",

"145.0   11\n",

"132.0   10\n",

"146.0   10\n",

"131.0   9\n",

"144.0   9\n",

"133.0   8\n",

"130.0   7\n",

"134.0   6\n",

"143.0   4\n",

"124.0   3\n",

"127.0   3\n",

"122.0   2\n",

"113.0   2\n",

"120.0   2\n",

"125.0   2\n",

"128.0   2\n",

"114.0   2\n",

"126.0   1\n",

"163.0   1\n",

"115.0   1\n",

"129.0   1\n",

"4.5   1\n",

"104.0   1\n",

"111.0   1\n",

"Name: sod, dtype: int64 \n",

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"5.0 30\n",

"4.9 27\n",

"4.7 17\n",

"4.8 16\n",

"3.9 14\n",

"3.8 14\n",

"4.1 14\n",

"4.2 14\n",

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"4.4 14\n",

"4.5 13\n",

"4.3 12\n",

"3.7 12\n",

"3.6 8\n",

"4.6 7\n",

"3.4 5\n",

"5.2 5\n",

"5.3 4\n",

"5.7 4\n",

"3.2 3\n",

"5.5 3\n",

"6.3 3\n",

"5.4 3\n",

"2.9 3\n",

"3.3 3\n",

"5.6 2\n",

"3.0 2\n",

"6.5 2\n",

"2.5 2\n",

"5.9 2\n",

"5.8 2\n",

"7.6 1\n",

"47.0 1\n",

"6.6 1\n",

"5.1 1\n",

"6.4 1\n",

"2.8 1\n",

"2.7 1\n",

"39.0 1\n",

"Name: pot, dtype: int64 \n",

"========================= \n",

"\n",

"15.0 16\n",

"10.9 8\n",

"13.6 7\n",

"13.0 7\n",

"9.8 7\n",

"   ..\n",

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"8.5   1\n",

"7.3   1\n",

"12.8   1\n",

"17.6   1\n",

"Name: hemo, Length: 115, dtype: int64 \n",

"========================= \n",

"\n",

"41   21\n",

"52   21\n",

"44   19\n",

"48   19\n",

"40   16\n",

"43   14\n",

"42   13\n",

"45   13\n",

"32   12\n",

"36   12\n",

"33   12\n",

"50   12\n",

"28   12\n",

"34   11\n",

"37   11\n",

"30   9\n",

"29 9\n",

"35 9\n",

"46 9\n",

"31 8\n",

"24 7\n",

"39 7\n",

"26 6\n",

"38 5\n",

"53 4\n",

"51 4\n",

"49 4\n",

"47 4\n",

"54 4\n",

"25 3\n",

"27 3\n",

"22 3\n",

"19 2\n",

"23 2\n",

"15 1\n",

"21 1\n",

"17 1\n",

"20 1\n",

"\\t43 1\n",

"18 1\n",

"9 1\n",

"14   1\n",

"\\t?   1\n",

"16   1\n",

"Name: pcv, dtype: int64 \n",

"========================= \n",

"\n",

"9800   11\n",

"6700   10\n",

"9200   9\n",

"9600   9\n",

"7200   9\n",

"   ..\n",

"19100   1\n",

"\\t?   1\n",

"12300   1\n",

"14900   1\n",

"12700   1\n",

"Name: wc, Length: 92, dtype: int64 \n",

"========================= \n",

"\n",

"5.2   18\n",

"4.5   16\n",

"4.9   14\n",

"4.7   11\n",

"4.8   10\n",

"3.9 10\n",
"4.6 9\n",
"3.4 9\n",
"5.9 8\n",
"5.5 8\n",
"6.1 8\n",
"5.0 8\n",
"3.7 8\n",
"5.3 7\n",
"5.8 7\n",
"5.4 7\n",
"3.8 7\n",
"5.6 6\n",
"4.3 6\n",
"4.2 6\n",
"3.2 5\n",
"4.4 5\n",
"5.7 5\n",
"6.4 5\n",
"5.1 5\n",
"6.2 5\n",
"6.5 5\n",
"4.1 5\n",
"3.6 4\n",
"6.3 4\n",

"6.0 4\n",

"4.0 3\n",

"3.3 3\n",

"4 3\n",

"3.5 3\n",

"2.9 2\n",

"3.1 2\n",

"2.6 2\n",

"2.1 2\n",

"2.5 2\n",

"2.8 2\n",

"3.0 2\n",

"2.7 2\n",

"5 2\n",

"2.3 1\n",

"\\t? 1\n",

"2.4 1\n",

"3 1\n",

"8.0 1\n",

"Name: rc, dtype: int64 \n",

"========== \n",

"\n",

"no 251\n",

"yes 147\n",

"Name: htn, dtype: int64 \n",

"========================= \n",

"\n",

"no   258\n",

"yes   134\n",

"\\tno   3\n",

"\\tyes   2\n",

" yes   1\n",

"Name: dm, dtype: int64 \n",

"========================= \n",

"\n",

"no   362\n",

"yes   34\n",

"\\tno   2\n",

"Name: cad, dtype: int64 \n",

"========================= \n",

"\n",

"good   317\n",

"poor   82\n",

"Name: appet, dtype: int64 \n",

"========================= \n",

"\n",

"no   323\n",

"yes   76\n",

"Name: pe, dtype: int64 \n",

"========================= \n",

```
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        "no     339\n",
        "yes     60\n",
        "Name: ane, dtype: int64 \n",
        "========================= \n",
        "\n",
        "ckd       248\n",
        "notckd    150\n",
        "ckd\\t       2\n",
        "Name: classification, dtype: int64 \n",
        "========================= \n",
        "\n"
       ]
      }
     ]
    },
    {
     "cell_type": "code",
     "source": [
      "# cleaning 'PCV'\n",
      "df['pcv']=df['pcv'].apply(lambda x:x if type(x)==type(3.5) else x.replace('\\t43','43').replace('\\t?','Nan'))\n",
      "\n",
      "# cleaning \"WC\"\n",
      "df['wc']=df['wc'].apply(lambda x:x if type(x)==type(3.5) else x.replace('\\t?','Nan').replace('\\t6200','6200').replace('\\t8400','8400'))\n",
```

```
        "\n",
        "# cleaning \"RC\"\n",
        "df['rc']=df['rc'].apply(lambda x:x if type(x)==type(3.5) else x.replace('\\t?','Nan'))\n",
        "\n",
        "# cleaning \"dm\"\n",
        "df['dm']=df['dm'].apply(lambda x:x if type(x)==type(3.5) else x.replace('\\tno','no').replace('\\tyes','yes').replace(' yes','yes'))\n",
        "\n",
        "# cleaning \"CAD\"\n",
        "df['cad']=df['cad'].apply(lambda x:x if type(x)==type(3.5) else x.replace('\\tno','no'))\n",
        "\n",
        "# cleaning \"Classification\"\n",
        "df['classification']=df['classification'].apply(lambda x:x if type(x)==type(3.5) else x.replace('ckd\\t','ckd'))"
      ],
      "metadata": {
        "id": "XIU-2-0siPn1"
      },
      "execution_count": 16,
      "outputs": []
    },
    {
      "cell_type": "code",
      "source": [
        "df.drop('id',axis=1,inplace=True)"
```

```
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 "metadata": {
  "id": "67EJvZ3-iPuk"
 },
 "execution_count": 17,
 "outputs": []
},
{
 "cell_type": "code",
 "source": [
  "mistyped=[['pcv','rc','wc']]\n",
  "for i in mistyped:\n",
  "    df[i]=df[i].astype('float')"
 ],
 "metadata": {
  "id": "dF4AbUSQord-"
 },
 "execution_count": 18,
 "outputs": []
},
{
 "cell_type": "code",
 "source": [
  "cat_cols=list(df.select_dtypes('object'))\n",
  "cat_cols"
```

```
],
"metadata": {
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  },
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  "outputId": "71b7067f-91cd-4552-a9bd-aca86cc76e9a"
},
"execution_count": 19,
"outputs": [
  {
    "output_type": "execute_result",
    "data": {
      "text/plain": [
        "['rbc',\n",
        " 'pc',\n",
        " 'pcc',\n",
        " 'ba',\n",
        " 'htn',\n",
        " 'dm',\n",
        " 'cad',\n",
        " 'appet',\n",
        " 'pe',\n",
        " 'ane',\n",
        " 'classification']"
```

```
        ]
       },
       "metadata": {},
       "execution_count": 19
     }
   ]
  },
  {
   "cell_type": "code",
   "source": [
    "num_cols=list(df.select_dtypes(['int64','float64']))\n",
    "num_cols"
   ],
   "metadata": {
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    },
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    "outputId": "67ec9565-724a-498e-c6fb-898105bbd44a"
   },
   "execution_count": 20,
   "outputs": [
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     "output_type": "execute_result",
     "data": {
```

```
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          "['age',\n",
          " 'bp',\n",
          " 'sg',\n",
          " 'al',\n",
          " 'su',\n",
          " 'bgr',\n",
          " 'bu',\n",
          " 'sc',\n",
          " 'sod',\n",
          " 'pot',\n",
          " 'hemo',\n",
          " 'pcv',\n",
          " 'wc',\n",
          " 'rc']"
        ]
      },
      "metadata": {},
      "execution_count": 20
    }
  ]
},
{
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  "source": [
```

```
    "**Handling Missing Values**"
   ],
   "metadata": {
    "id": "hUB64ri9paB5"
   }
  },
  {
   "cell_type": "code",
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    "# Checking missing/Nan values\n",
    "df.isnull().sum().sort_values(ascending=False)"
   ],
   "metadata": {
    "colab": {
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    },
    "id": "SmzakNsHor1P",
    "outputId": "6f5cac11-f337-4878-d21c-164f96a8b79c"
   },
   "execution_count": 21,
   "outputs": [
    {
     "output_type": "execute_result",
     "data": {
      "text/plain": [
```

"rbc 152\n",
"rc 131\n",
"wc 106\n",
"pot 88\n",
"sod 87\n",
"pcv 71\n",
"pc 65\n",
"hemo 52\n",
"su 49\n",
"sg 47\n",
"al 46\n",
"bgr 44\n",
"bu 19\n",
"sc 17\n",
"bp 12\n",
"age 9\n",
"ba 4\n",
"pcc 4\n",
"htn 2\n",
"dm 2\n",
"cad 2\n",
"appet 1\n",
"pe 1\n",
"ane 1\n",
"classification 0\n",

```
          "dtype: int64"
        ]
      },
      "metadata": {},
      "execution_count": 21
    }
  ]
},
{
  "cell_type": "markdown",
  "source": [
    "**Replacing Missing Values**"
  ],
  "metadata": {
    "id": "Rb62gGlKplv2"
  }
},
{
  "cell_type": "code",
  "source": [
    "for col in num_cols:\n",
    "    df[col]=df[col].fillna(df[col].median())"
  ],
  "metadata": {
    "id": "SdYx4uPTor8P"
```

```
  },
  "execution_count": 22,
  "outputs": []
},
{
  "cell_type": "code",
  "source": [
    "# let's impute categorical features with most frequent value\n",
    "df['rbc'].fillna('normal',inplace=True)\n",
    "df['pc'].fillna('normal',inplace=True)\n",
    "df['pcc'].fillna('notpresent',inplace=True)\n",
    "df['ba'].fillna('notpresent',inplace=True)\n",
    "df['htn'].fillna('no',inplace=True)\n",
    "df['dm'].fillna('no',inplace=True)\n",
    "df['cad'].fillna('no',inplace=True)\n",
    "df['appet'].fillna('good',inplace=True)\n",
    "df['pe'].fillna('no',inplace=True)\n",
    "df['ane'].fillna('no',inplace=True)"
  ],
  "metadata": {
    "id": "bvPZgjaBosDh"
  },
  "execution_count": 23,
  "outputs": []
},
```

```
{
 "cell_type": "code",
 "source": [
  "df.isna().sum().sort_values(ascending=False)"
 ],
 "metadata": {
  "colab": {
   "base_uri": "https://localhost:8080/"
  },
  "id": "3zmS4Sq4p9c6",
  "outputId": "716acbee-5f5b-4f1f-8d5d-2642e4a5e515"
 },
 "execution_count": 24,
 "outputs": [
  {
   "output_type": "execute_result",
   "data": {
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     "age             0\n",
     "pot             0\n",
     "ane             0\n",
     "pe              0\n",
     "appet           0\n",
     "cad             0\n",
     "dm              0\n",
```

```
        "htn             0\n",
        "rc              0\n",
        "wc              0\n",
        "pcv             0\n",
        "hemo            0\n",
        "sod             0\n",
        "bp              0\n",
        "sc              0\n",
        "bu              0\n",
        "bgr             0\n",
        "ba              0\n",
        "pcc             0\n",
        "pc              0\n",
        "rbc             0\n",
        "su              0\n",
        "al              0\n",
        "sg              0\n",
        "classification  0\n",
        "dtype: int64"
      ]
    },
    "metadata": {},
    "execution_count": 24
  }
]
```

```
},
{
 "cell_type": "markdown",
 "source": [
  "**Label Encoding**"
 ],
 "metadata": {
  "id": "965X9UWMqMp7"
 }
},
{
 "cell_type": "code",
 "source": [
  "# Encode classification\n",
  "df['classification']=df['classification'].map({'ckd':1,'notckd':0})"
 ],
 "metadata": {
  "id": "AlnAc0mPqTgx"
 },
 "execution_count": 25,
 "outputs": []
},
{
 "cell_type": "code",
 "source": [
```

```
    "attr_count=df['classification'].value_counts()\n",
    "attr_label=df['classification'].value_counts().index\n",
    "\n",
    "# plot\n",
    "fig,ax=plt.subplots(figsize=(14,6))\n",

"ax.pie(attr_count,explode=(0.1,0),labels=attr_label,autopct='%.2f%%',startangle=
90)\n",
    "ax.set_title(\"Classification \",fontsize=15)\n",
    "plt.show()"
   ],
   "metadata": {
    "colab": {
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     "height": 375
    },
    "id": "vkQW40wNqToq",
    "outputId": "a6ce5486-b20e-4926-f3ed-8379e181425d"
   },
   "execution_count": 26,
   "outputs": [
    {
     "output_type": "display_data",
     "data": {
      "text/plain": [
       "<Figure size 1008x432 with 1 Axes>"
```

],

"image/png":
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NCSVQICAgIfAhkiAAAAAlwSFlzAAALEgAACxIB0t1+/AAAADh0RVh0U29
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G90bGliLm9yZy+WH4yJAAAgAElEQVR4nO3deZgcVcH24d+Zd+Sx
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yXMeZKY8ykKNvEmNe9pzHmlB6ev9IY82Sc65L60WQ7gFSXMeZXwCnAFc
CFwHxgY+A4YB3gAHvpOACYs/QHY8zWwJnAj4D7gQ+A2cD2wGsxr3tP4CB
gSrfnzwaaY16X1AkVaoYZY/YFTgOOCYLg8rKXHjDG/JGwVKwJguDpbk9tG
P16cRAE88uen16jSARBEHdxSx3RJn+2nQo81a1MAQiCoDMIgjuXt6Ax5ghjzM
PGmI+MMXONMfdFI8jy92xijJkWvWeRMeYlY8wJZa/vZIx5yBgzP3o8Y4w5u
Oz1Tzb5jTFXAn+OXipFm/mTetrkN8Y0GmP+L5q6WGyMeSdafunreWPMP4wx
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ShuffleSplit,GridSearchCV,StratifiedKFold\n",
    "from sklearn.linear_model import LogisticRegression\n",
    "from sklearn.tree import DecisionTreeClassifier\n",
```

```
      "from sklearn.ensemble import RandomForestClassifier\n",
      "from sklearn.svm import SVC"
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      "def find_best_model(x,y):\n",
      "
models={'Logistic_regression':{'model':LogisticRegression(solver='liblinear',penalty='l2',multi_class='auto'),'parameter':{'C':[1,4,8]}},\n",
      "
'decision_tree':{'model':DecisionTreeClassifier(splitter='best'),'parameter':{'criterion':['gini','entropy'],'max_depth':[5,7,13,15]}},\n",
      "
'svm':{'model':SVC(gamma='auto'),'parameter':{'kernel':['sigmoid','linear'],'C':[1,5,10,15]}},\n",
      "
'random_forest':{'model':RandomForestClassifier(criterion='gini'),'parameter':{'max_depth':[5,10,15],'n_estimators':[1,3,5]}}}\n",
      "    scores=[]\n",
      "    cv_shuffle=StratifiedKFold(n_splits=10)\n",
```

```
    "    \n",
    "    for model_name,model_params in models.items():\n",
    "
gs=GridSearchCV(model_params['model'],model_params['parameter'],cv=cv_shuf
fle,return_train_score=False)\n",
    "        gs.fit(x,y)\n",
    "
scores.append({'model':model_name,'best_parameters':gs.best_params_,'score':gs.b
est_score_})\n",
    "    return
pd.DataFrame(scores,columns=['model','best_parameters','score'])\n",
    "find_best_model(X_train,y_train)"
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```
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  "1       decision_tree  {'criterion': 'entropy', 'max_depth': 15}  0.981250\n",
  "2                 svm             {'C': 5, 'kernel': 'linear'}  0.978125\n",
  "3       random_forest       {'max_depth': 5, 'n_estimators': 5}  0.996875"
],
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  "      <div>\n",
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  "        vertical-align: middle;\n",
  "    }\n",
  "\n",
  "    .dataframe tbody tr th {\n",
  "        vertical-align: top;\n",
  "    }\n",
  "\n",
  "    .dataframe thead th {\n",
  "        text-align: right;\n",
  "    }\n",
  "</style>\n",
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```
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```
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"              style=\"display:none;\">\n",
"        \n",
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"       width=\"24px\">\n",
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"        buttonEl.style.display =\n",
"          google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"\n",
"        async function convertToInteractive(key) {\n",
"          const element = document.querySelector('#df-05a991c3-0738-4955-bf0b-ed732e76191b');\n",
```

```
        "          const dataTable =\n",
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google.colab.kernel.invokeFunction('convertToInteractive',\n",
        "                                                [key], {});\n",
        "          if (!dataTable) return;\n",
        "\n",
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        "            '<a target=\"_blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data table
notebook</a>'\n",
        "            + ' to learn more about interactive tables.';\n",
        "          element.innerHTML = '';\n",
        "          dataTable['output_type'] = 'display_data';\n",
        "          await google.colab.output.renderOutput(dataTable, element);\n",
        "          const docLink = document.createElement('div');\n",
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      "from sklearn.model_selection import cross_val_score\n",

"score=cross_val_score(RandomForestClassifier(max_depth=15,n_estimators=5),
X_train,y_train,cv=10)\n",
      "print(\"Average Accuracy Score {}\".format(score.mean()))"
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      "y_pred=rf.predict(X_test)\n",
      "cm=confusion_matrix(y_pred,y_test)\n",
      "cm"
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  "p = sns.heatmap(cm, annot=True, cmap=\"Blues\", fmt='g')\n",
  "plt.title('Confusion matrix for RandomForest Model - Test Set')\n",
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  "plt.ylabel('Actual Values')\n",
  "plt.show()"
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