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Classifiers"
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        "import numpy as np\n",
        "import pandas as pd\n",
        "from tqdm import tqdm\n",
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        "# Data Visualization\n",
        "import matplotlib.pyplot as plt\n",
        "import plotly.express as px\n",
        "import plotly.graph_objects as go\n",
        "from plotly.subplots import make_subplots\n",
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        "# Data pre-processing\n",
        "from sklearn.preprocessing import StandardScaler\n",
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        "# Data splitting\n",
        "from sklearn.model_selection import train_test_split\n",
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        "# Machine learning Models\n",
        "from sklearn.decomposition import PCA\n",
        "from sklearn.model_selection import GridSearchCV\n",
        "from sklearn.linear_model import LogisticRegression\n",
        "from sklearn.tree import DecisionTreeClassifier\n",
        "from sklearn.svm import SVC\n",

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"from sklearn.ensemble import RandomForestClassifier\n",
"from sklearn.neighbors import KNeighborsClassifier\n",
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"# Evaluation metrics\n",
"from sklearn.metrics import accuracy_score\n",
"from sklearn.metrics import confusion_matrix, ConfusionMatrixDisplay\n",
"from sklearn.metrics import roc_curve, auc\n",
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"#Installing dependencies\n",
"!pip install -U kaleido"
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"        + ' to learn more about interactive tables.';\n",
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"     border-left-color: var(--fill-color);\n",
"   }\n",
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"     border-top-color: var(--fill-color);\n",
"   }\n",
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"   }\n",
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"   }\n",
" }\n",
" }\n",
"</style>\n",
"\n",
" <script>\n",
"   async function quickchart(key) {\n",
"     const quickchartButtonEl =\n",
"       document.querySelector('#' + key + ' button');\n",
"     quickchartButtonEl.disabled = true; // To prevent multiple
clicks.\n",
"     quickchartButtonEl.classList.add('colab-df-spinner');\n",

```

```

        "        try {\n",
        "            const charts = await google.colab.kernel.invokeFunction(\n",
        "                'suggestCharts', [key], {});\n",
        "        } catch (error) {\n",
        "            console.error('Error during call to suggestCharts:',
error);\n",
        "        }\n",
        "        quickchartButtonEl.classList.remove('colab-df-spinner');\n",
        "        quickchartButtonEl.classList.add('colab-df-quickchart-
complete');\n",
        "    }\n",
        "    (() => {\n",
        "        let quickchartButtonEl =\n",
        "        document.querySelector('#df-24c5a9cc-258b-4ba4-b6f8-
4e84164b06ea button');\n",
        "        quickchartButtonEl.style.display =\n",
        "        google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
        "    })();\n",
        "    </script>\n",
        "    </div>\n",
        "    </div>\n",
        "    </div>\n",
        "    ]\n",
        "    },\n",
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        "  }\n",
        "],\n",
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        "    "# Read dataset from csv file\n",
        "    "data = pd.read_csv(\"student's dropout dataset.csv\")\n",
        "    "\n",
        "    "# Correcting typographical error for nationality\n",
        "    "data.rename(columns = {'Nacionality': 'Nationality'}, inplace = True)\n",
        "    "data.head()\n",
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    "data.shape"
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        "Data columns (total 35 columns):\n",
        " #   Column

```

Dtype	\n",	Non-Null Count
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int64	" 1 Application mode	4424 non-null
int64	" 2 Application order	4424 non-null
int64	" 3 Course	4424 non-null
int64	" 4 Daytime/evening attendance	4424 non-null
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int64	\n",	

```

int64 \n", " 7  Mother's qualification 4424 non-null
int64 \n", " 8  Father's qualification 4424 non-null
int64 \n", " 9  Mother's occupation 4424 non-null
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int64 \n", " 11 Displaced 4424 non-null
int64 \n", " 12 Educational special needs 4424 non-null
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int64 \n", " 15 Gender 4424 non-null
int64 \n", " 16 Scholarship holder 4424 non-null
int64 \n", " 17 Age at enrollment 4424 non-null
int64 \n", " 18 International 4424 non-null
int64 \n", " 19 Curricular units 1st sem (credited) 4424 non-null
int64 \n", " 20 Curricular units 1st sem (enrolled) 4424 non-null
int64 \n", " 21 Curricular units 1st sem (evaluations) 4424 non-null
int64 \n", " 22 Curricular units 1st sem (approved) 4424 non-null
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float64\n", " 24 Curricular units 1st sem (without evaluations) 4424 non-null
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int64 \n", " 29 Curricular units 2nd sem (grade) 4424 non-null
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float64\n", " 34 Target 4424 non-null
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```

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      "data": {
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```

Course	Marital status	Application mode	Application order
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NaN	unique	NaN	NaN
NaN	top	NaN	NaN
NaN	freq	NaN	NaN
9.899186	mean	1.178571	1.727848
4.331792	std	0.605747	1.313793
1.000000	min	1.000000	0.000000
6.000000	25%	1.000000	1.000000
10.000000	50%	1.000000	1.000000
13.000000	75%	1.000000	2.000000
17.000000	max	6.000000	9.000000
Nationality	Daytime/evening attendance	Previous qualification	
	count	4424.000000	4424.000000

```

        ]
      }
    }
  ]
}

```


4424.000000	\n",			
	"unique		NaN	NaN
NaN	\n",			
	"top		NaN	NaN
NaN	\n",			
	"freq		NaN	NaN
NaN	\n",			
	"mean		0.890823	2.531420
1.254521	\n",			
	"std		0.311897	3.963707
1.748447	\n",			
	"min		0.000000	1.000000
1.000000	\n",			
	"25%		1.000000	1.000000
1.000000	\n",			
	"50%		1.000000	1.000000
1.000000	\n",			
	"75%		1.000000	1.000000
1.000000	\n",			
	"max		1.000000	17.000000
21.000000	\n",			
	"\n",			
	"	Mother's qualification	Father's qualification	Mother's
occupation	\\n",			
	"count	4424.000000		4424.000000
4424.000000	\n",			
	"unique		NaN	NaN
NaN	\n",			
	"top		NaN	NaN
NaN	\n",			
	"freq		NaN	NaN
NaN	\n",			
	"mean		12.322107	16.455244
7.317812	\n",			
	"std		9.026251	11.044800
3.997828	\n",			
	"min		1.000000	1.000000
1.000000	\n",			
	"25%		2.000000	3.000000
5.000000	\n",			
	"50%		13.000000	14.000000
6.000000	\n",			
	"75%		22.000000	27.000000
10.000000	\n",			
	"max		29.000000	34.000000
32.000000	\n",			
	"\n",			
	"	Father's occupation	Displaced	Educational special needs
\\n",				
	"count	4424.000000	4424.000000	4424.000000
\n",				
	"unique	NaN	NaN	NaN
\n",				
	"top	NaN	NaN	NaN
\n",				
	"freq	NaN	NaN	NaN
\n",				
	"mean	7.819168	0.548373	0.011528
\n",				

\n",	"std	4.856692	0.497711	0.106760
\n",	"min	1.000000	0.000000	0.000000
\n",	"25%	5.000000	0.000000	0.000000
\n",	"50%	8.000000	1.000000	0.000000
\n",	"75%	10.000000	1.000000	0.000000
\n",	"max	46.000000	1.000000	1.000000

Scholarship holder	"\n",	Debtor	Tuition fees up to date	Gender
4424.000000	"count	4424.000000	4424.000000	4424.000000
NaN	"unique	NaN	NaN	NaN
NaN	"top	NaN	NaN	NaN
NaN	"freq	NaN	NaN	NaN
0.248418	"mean	0.113698	0.880651	0.351718
0.432144	"std	0.317480	0.324235	0.477560
0.000000	"min	0.000000	0.000000	0.000000
0.000000	"25%	0.000000	1.000000	0.000000
0.000000	"50%	0.000000	1.000000	0.000000
0.000000	"75%	0.000000	1.000000	1.000000
1.000000	"max	1.000000	1.000000	1.000000

(credited)	"\n",	Age at enrollment	International	Curricular units 1st sem
4424.000000	"count	4424.000000	4424.000000	
NaN	"unique	NaN	NaN	
NaN	"top	NaN	NaN	
NaN	"freq	NaN	NaN	
0.709991	"mean	23.265145	0.024864	
2.360507	"std	7.587816	0.155729	
0.000000	"min	17.000000	0.000000	
0.000000	"25%	19.000000	0.000000	
0.000000	"50%	20.000000	0.000000	
0.000000	"75%	25.000000	0.000000	

0.000000	\n",			
	"max	70.000000	1.000000	
20.000000	\n",			
	"\n",			
	"	Curricular units 1st sem (enrolled)	\\n",	
	"count	4424.000000	\n",	
	"unique	NaN	\n",	
	"top	NaN	\n",	
	"freq	NaN	\n",	
	"mean	6.270570	\n",	
	"std	2.480178	\n",	
	"min	0.000000	\n",	
	"25%	5.000000	\n",	
	"50%	6.000000	\n",	
	"75%	7.000000	\n",	
	"max	26.000000	\n",	
	"\n",			
	"	Curricular units 1st sem (evaluations)	\\n",	
	"count	4424.000000	\n",	
	"unique	NaN	\n",	
	"top	NaN	\n",	
	"freq	NaN	\n",	
	"mean	8.299051	\n",	
	"std	4.179106	\n",	
	"min	0.000000	\n",	
	"25%	6.000000	\n",	
	"50%	8.000000	\n",	
	"75%	10.000000	\n",	
	"max	45.000000	\n",	
	"\n",			
	"	Curricular units 1st sem (approved)	Curricular units 1st	
sem (grade)	\\n",			
	"count	4424.000000		
4424.000000	\n",			
	"unique	NaN		
NaN \n",				
	"top	NaN		
NaN \n",				
	"freq	NaN		
NaN \n",				
	"mean	4.706600		
10.640822 \n",				
	"std	3.094238		
4.843663 \n",				
	"min	0.000000		
0.000000 \n",				
	"25%	3.000000		
11.000000 \n",				
	"50%	5.000000		
12.285714 \n",				
	"75%	6.000000		
13.400000 \n",				
	"max	26.000000		
18.875000 \n",				
	"\n",			
	"	Curricular units 1st sem (without evaluations)	\\n",	
	"count	4424.000000	\n",	
	"unique	NaN	\n",	
	"top	NaN	\n",	

"freq		NaN	\n",
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"std		0.690880	\n",
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"50%		0.000000	\n",
"75%		0.000000	\n",
"max		12.000000	\n",
"\n",			
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"max	19.000000	\n",	
"\n",			
"	Curricular units 2nd sem (enrolled)	\\\n",	
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"75%	7.000000	\n",	
"max	23.000000	\n",	
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"mean	8.063291	\n",	
"std	3.947951	\n",	
"min	0.000000	\n",	
"25%	6.000000	\n",	
"50%	8.000000	\n",	
"75%	10.000000	\n",	
"max	33.000000	\n",	
"\n",			
"	Curricular units 2nd sem (approved)	Curricular units 2nd	
sem (grade)	\\\n",		
4424.000000	"count	4424.000000	
	\n",		
NaN	"unique	NaN	
\n",			
NaN	"top	NaN	
\n",			
NaN	"freq	NaN	
\n",			
	"mean	4.435805	

```

10.230206  \n",
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5.210808   \n",
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0.000000   \n",
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13.333333  \n",
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            "\n",
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rate  \\\n",
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4424.000000 \n",
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NaN  \n",
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            "75%                               0.000000
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            "max                               12.000000
16.200000  \n",
            "\n",
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            "top              NaN              NaN      Graduate  \n",
            "freq              NaN              NaN      2209  \n",
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```

```

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"      <th>Application order</th>\n",
"      <th>Course</th>\n",
"      <th>Daytime/evening attendance</th>\n",
"      <th>Previous qualification</th>\n",
"      <th>Nationality</th>\n",
"      <th>Mother's qualification</th>\n",
"      <th>Father's qualification</th>\n",
"      <th>Mother's occupation</th>\n",
"      <th>Father's occupation</th>\n",
"      <th>Displaced</th>\n",
"      <th>Educational special needs</th>\n",
"      <th>Debtor</th>\n",
"      <th>Tuition fees up to date</th>\n",
"      <th>Gender</th>\n",
"      <th>Scholarship holder</th>\n",
"      <th>Age at enrollment</th>\n",
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"      <th>Curricular units 1st sem (enrolled)</th>\n",
"      <th>Curricular units 1st sem (evaluations)</th>\n",
"      <th>Curricular units 1st sem (approved)</th>\n",
"      <th>Curricular units 1st sem (grade)</th>\n",
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"      <th>Curricular units 2nd sem (grade)</th>\n",
"      <th>Curricular units 2nd sem (without evaluations)</th>\n",
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"      <th>Inflation rate</th>\n",
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[illegible]

[illegible]

[illegible]

[illegible]

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"	<td>2.000000</td>\n",
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```

```

"      <td>0.000000</td>\n",
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"    <td>1.000000</td>\n",
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"    <td>70.000000</td>\n",
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"    <td>12.000000</td>\n",
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"    <td>3.510000</td>\n",
"    <td>NaN</td>\n",
"  </tr>\n",
"</tbody>\n",

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"\n",
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"    <button class=\"colab-df-convert\"
onClick=\"convertToInteractive('df-80177db0-86f5-4d01-9aa8-a330a213bb5e')\">\n",
"      title=\"Convert this dataframe to an interactive
table.\">\n",
"        style=\"display:none;\">\n",
"\n",
"    <svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\"
viewBox=\"0 960 960 960\">\n",
"      <path d=\"M120 120v720h720v720H120Zm60 500h600v-
160H180v160Zm220 220h160v-160H400v160Zm0 220h160v-160H400v160Zm180 400h160v-
160H180v160Zm440 0h160v-160H620v160Zm180 180h160v-160H180v160Zm440 0h160v-
160H620v160Z\"/>\n",
"    </svg>\n",
"  </button>\n",
"\n",
"  <style>\n",
"    .colab-df-container {\n",
"      display: flex;\n",
"      gap: 12px;\n",
"    }\n",
"\n",
"    .colab-df-convert {\n",
"      background-color: #E8F0FE;\n",
"      border: none;\n",
"      border-radius: 50%;\n",
"      cursor: pointer;\n",
"      display: none;\n",
"      fill: #1967D2;\n",
"      height: 32px;\n",
"      padding: 0 0 0 0;\n",
"      width: 32px;\n",
"    }\n",
"\n",
"    .colab-df-convert:hover {\n",
"      background-color: #E2EBFA;\n",
"      box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px
rgba(60, 64, 67, 0.15);\n",
"      fill: #174EA6;\n",
"    }\n",
"\n",
"    .colab-df-buttons div {\n",
"      margin-bottom: 4px;\n",
"    }\n",
"\n",
"    [theme=dark] .colab-df-convert {\n",
"      background-color: #3B4455;\n",
"      fill: #D2E3FC;\n",
"    }\n",
"\n",
"    [theme=dark] .colab-df-convert:hover {\n",
"      background-color: #434B5C;\n",
"      box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",
"      filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\n",
"      fill: #FFFFFF;\n",

```

```

"    }\n",
"  </style>\n",
"\n",
"  <script>\n",
"    const buttonEl =\n",
"      document.querySelector('#df-80177db0-86f5-4d01-9aa8-a330a213bb5e\n",
"      button.colab-df-convert');\n",
"    buttonEl.style.display =\n",
"      google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"\n",
"    async function convertToInteractive(key) {\n",
"      const element = document.querySelector('#df-80177db0-86f5-4d01-9aa8-a330a213bb5e');\n",
"      const dataTable =\n",
"        await\n",
"        google.colab.kernel.invokeFunction('convertToInteractive',\n",
"          [key], {});\n",
"      if (!dataTable) return;\n",
"      const docLinkHtml = 'Like what you see? Visit the ' +\n",
"        '<a target=\"_blank\" href=https://colab.research.google.com/notebooks/data_table.ipynb>data table\n",
"        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",
"      docLink.innerHTML = docLinkHtml;\n",
"      element.appendChild(docLink);\n",
"    }\n",
"  </script>\n",
"  </div>\n",
"\n",
"<div id=\"df-f35ed1b3-7003-4e7f-9100-2e336e2d5f9a\">\n",
"  <button class=\"colab-df-quickchart\" onclick=\"quickchart('df-f35ed1b3-7003-4e7f-9100-2e336e2d5f9a')\">\n",
"    title=\"Suggest charts\"\n",
"    style=\"display:none;\"\n",
">\n",
"<svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\" viewBox=\"0 0 24 24\">\n",
"  width=\"24px\">\n",
"    <g>\n",
"      <path d=\"M19 3H5c-1.1 0-2 .9-2 2v14c0 1.1.9 2 2 2h14c1.1 0 2 .9 2 2v5c0 1.1.9 2 2 2z\">\n",
"    </g>\n",
"  </svg>\n",
"  </button>\n",
"\n",
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"    --bg-color: #E8F0FE;\n",
"    --fill-color: #1967D2;\n",
"    --hover-bg-color: #E2EBFA;\n",
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"    --disabled-fill-color: #AAA;\n",

```

```

"      --disabled-bg-color: #DDD;\n",
"    }\n",
"\n",
"  [theme=dark] .colab-df-quickchart {\n",
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"    --fill-color: #D2E3FC;\n",
"    --hover-bg-color: #434B5C;\n",
"    --hover-fill-color: #FFFFFF;\n",
"    --disabled-bg-color: #3B4455;\n",
"    --disabled-fill-color: #666;\n",
"  }\n",
"\n",
"  .colab-df-quickchart {\n",
"    background-color: var(--bg-color);\n",
"    border: none;\n",
"    border-radius: 50%;\n",
"    cursor: pointer;\n",
"    display: none;\n",
"    fill: var(--fill-color);\n",
"    height: 32px;\n",
"    padding: 0;\n",
"    width: 32px;\n",
"  }\n",
"\n",
"  .colab-df-quickchart:hover {\n",
"    background-color: var(--hover-bg-color);\n",
"    box-shadow: 0 1px 2px rgba(60, 64, 67, 0.3), 0 1px 3px 1px
rgba(60, 64, 67, 0.15);\n",
"    fill: var(--button-hover-fill-color);\n",
"  }\n",
"\n",
"  .colab-df-quickchart-complete:disabled,\n",
"  .colab-df-quickchart-complete:disabled:hover {\n",
"    background-color: var(--disabled-bg-color);\n",
"    fill: var(--disabled-fill-color);\n",
"    box-shadow: none;\n",
"  }\n",
"\n",
"  .colab-df-spinner {\n",
"    border: 2px solid var(--fill-color);\n",
"    border-color: transparent;\n",
"    border-bottom-color: var(--fill-color);\n",
"    animation:\n",
"      spin 1s steps(1) infinite;\n",
"  }\n",
"\n",
"  @keyframes spin {\n",
"    0% {\n",
"      border-color: transparent;\n",
"      border-bottom-color: var(--fill-color);\n",
"      border-left-color: var(--fill-color);\n",
"    }\n",
"    20% {\n",
"      border-color: transparent;\n",
"      border-left-color: var(--fill-color);\n",
"      border-top-color: var(--fill-color);\n",
"    }\n",
"    30% {\n",
"      border-color: transparent;\n",

```



```

"      border-left-color: var(--fill-color);\n",
"      border-top-color: var(--fill-color);\n",
"      border-right-color: var(--fill-color);\n",
"    }\n",
"    40% {\n",
"      border-color: transparent;\n",
"      border-right-color: var(--fill-color);\n",
"      border-top-color: var(--fill-color);\n",
"    }\n",
"    60% {\n",
"      border-color: transparent;\n",
"      border-right-color: var(--fill-color);\n",
"    }\n",
"    80% {\n",
"      border-color: transparent;\n",
"      border-right-color: var(--fill-color);\n",
"      border-bottom-color: var(--fill-color);\n",
"    }\n",
"    90% {\n",
"      border-color: transparent;\n",
"      border-bottom-color: var(--fill-color);\n",
"    }\n",
"  }\n",
"</style>\n",
"\n",
"  <script>\n",
"    async function quickchart(key) {\n",
"      const quickchartButtonEl =\n",
"        document.querySelector('#' + key + ' button');\n",
"      quickchartButtonEl.disabled = true;  // To prevent multiple
clicks.\n",
"      quickchartButtonEl.classList.add('colab-df-spinner');\n",
"      try {\n",
"        const charts = await google.colab.kernel.invokeFunction(\n",
"          'suggestCharts', [key], {});\n",
"      } catch (error) {\n",
"        console.error('Error during call to suggestCharts:',
error);\n",
"      }\n",
"      quickchartButtonEl.classList.remove('colab-df-spinner');\n",
"      quickchartButtonEl.classList.add('colab-df-quickchart-
complete');\n",
"    }\n",
"    (() => {\n",
"      let quickchartButtonEl =\n",
"        document.querySelector('#df-f35ed1b3-7003-4e7f-9100-
2e336e2d5f9a button');\n",
"      quickchartButtonEl.style.display =\n",
"        google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"    })();\n",
"  </script>\n",
"</div>\n",
"</div>\n",
"</div>\n",
]
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"metadata": {},
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```

```

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    "# descriptive analysis\n",
    "pd.set_option('display.max_columns', None)\n",
    "data.describe(include = 'all')\n"
]
},
{
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        "outputId": "a4721576-0650-45e3-8324-da131e3fa200"
    },
    "outputs": [
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            "data": {
                "text/plain": [
                    "0"
                ]
            },
            "metadata": {},
            "execution_count": 61
        }
    ],
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        "#Checking for null values\n",
        "data.isnull().any().sum()\n"
    ]
},
{
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    "source": [
        "No null values present in the data set"
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},
{
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    "source": [
        "#Exploratory Data Analysis"
    ]
},
{
    "cell_type": "markdown",
    "metadata": {
        "id": "JptzEOhTAIdJ"
    },
    "source": [
        "The majority of categorical variables in the downloaded dataset have

```

already been converted to numerical format. However, for the purpose of exploratory data analysis (EDA), we will revert certain columns to their original categorical form."

```
]
},
{
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  "execution_count": null,
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  },
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    "# Create a copy for exploratory data analysis\n",
    "data_viz = data.copy()"
  ]
},
{
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  "metadata": {
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    "First we explore the values in the target column"
  ]
},
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          "array(['Dropout', 'Graduate', 'Enrolled'], dtype=object)"
        ]
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},
{
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  "metadata": {
    "id": "8w4k5xiaKgd_"
  },
  "source": [
```

```

        "From the target column we can infer the following:\n",
        "* Dropout: The student dropped out\n",
        "* Graduate: The student graduated\n",
        "* Enrolled: The student is currently enrolled"
    ]
},
{
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        "fig = px.pie(values= data_viz['Target'].value_counts(),\n",
        "              names= data_viz['Target'].value_counts().index.to_list())\n",
        "\n",
        "fig.update_traces(textposition='inside', textinfo='percent+label',\n",
        "                    marker=dict(colors=['teal', 'goldenrod', 'slateblue']))\n",
n",
        "\n",
        "fig.update_layout(showlegend = False, height=400, width=800,\n",
        "                    title='Distribution of Target')\n",
        "fig.write_image('fig.svg', engine='kaleido')\n",
        "fig.show('svg')
    ],
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width=\"800\" height=\"400\" style=\"\" viewBox=\"0 0 800 400\"><rect x=\"0\"
y=\"0\" width=\"800\" height=\"400\" style=\"fill: rgb(255, 255, 255); fill-
opacity: 1;\"/><defs id=\"defs-48aa56\"><g class=\"clips\"/><g
class=\"gradients\"/><g class=\"patterns\"/></defs><g class=\"bglayer\"/><g
class=\"layer-below\"/><g class=\"imagelayer\"/><g class=\"shapelayer\"/></g><g
class=\"cartesianlayer\"/><g class=\"polarlayer\"/><g class=\"smithlayer\"/><g
class=\"ternarylayer\"/><g class=\"geolayer\"/><g class=\"funnelarealayer\"/><g
class=\"pielayer\"/><g class=\"trace\" stroke-linejoin=\"round\" style=\"opacity:
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128, 128); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-
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anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial,
sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-
space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\"
y=\"0\">Graduate</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\"
y=\"0\">49.9%</tspan></text></g></g><g class=\"slice\"><path class=\"surface\"
d=\"M400,190l-117.20594370308929,56.238481137636214a130,130 0 0 1
117.20594370308929,-186.2384811376362Z\" style=\"pointer-events: none; fill:
rgb(218, 165, 32); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68);
stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\"

```

```

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text-anchor=\middle\" x=\0\" y=\0\" style=\font-family: 'Open Sans', verdana,
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space: pre;\"><tspan class=\line\" dy=\0em\" x=\0\"
y=\0\">Dropout</tspan><tspan class=\line\" dy=\1.3em\" x=\0\"
y=\0\">32.1%</tspan></text></g></g><g class=\slice\"><path class=\surface\"
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117.75983946610707,-73.7603388550226Z\" style=\pointer-events: none; fill:
rgb(106, 90, 205); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68);
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class=\slicetext\" transform=\translate(355.02724758507134,257.99520098939996)\\"
text-anchor=\middle\" x=\0\" y=\0\" style=\font-family: 'Open Sans', verdana,
arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1;
white-space: pre;\"><tspan class=\line\" dy=\0em\" x=\0\"
y=\0\">Enrolled</tspan><tspan class=\line\" dy=\1.3em\" x=\0\"
y=\0\">17.9%</tspan></text></g></g></g></g><g class=\iciclelayer\"/><g
class=\treemaplayer\"/><g class=\sunburstlayer\"/><g class=\glimages\"/><defs
id=\topdefs-48aa56\"><g class=\clips\"/></defs><g class=\layer-above\"><g
class=\imagelayer\"/><g class=\shapelayer\"/></g><g class=\infolayer\"><g
class=\g-gtitle\"><text class=\gtitle\" x=\40\" y=\30\" text-anchor=\start\"
dy=\0em\" style=\font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
17px; fill: rgb(42, 63, 95); opacity: 1; font-weight: normal; white-space:
pre;\">>Distribution of Target</text></g></g></svg>\"

```

```

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  }
],
},
{
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  },
  "source": [
    "***Observation**\n",
    "** The graph shows that majority of the students are Graduates **(49%)*\n",
    n",
    "** There are also more Dropouts **(32.1%)* than those currently Enrolled\n",
    **(17%)*"
  ]
},
{
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  },
  "source": [
    "## Age distribution of students"
  ]
},
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[illegible]

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```

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[illegible]

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```

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Target

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Graduate

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Enrolled

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Age distribution of students

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Age at
enrollment

</text></g><g class=\g-ytitle\><text class=\ytile\
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</text></g></g></svg>


```

```

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        "                    width = 800, height = 500,\n",
        "                    color_discrete_sequence=px.colors.qualitative.G10)\n",
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        "fig.write_image('fig.svg', engine='kaleido')\n",
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            "***Observation**\n",
            "\n",
            "** Distribution shows that the data is right skewed indicating that majority of the students are in their late teen's to early 20's\n",
            "** It is also observed that there was an increase in dropout rate from students in their mid 20's to early 30's"
        ],
    },
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            "\n",
            "One to create dictionaries of all categories with respect to number of students enrolled, students who dropped out or graduated, the other would be to create pie charts based on the dictionaries created for visualization."
        ],
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            "    '''This function returns a list of dictionaries for value count of each target label per category'''\n",
            "    for each_category in category_list:\n",
            "        a_dictionary = dict(data_viz[data_viz[dfcolumn_name]== each_category][target_col].value_counts())\n",
            "        dictionary_list.append(a_dictionary)\n",
            "    return dictionary_list"
        ]
    }
]

```

```

    ]
},
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        "    '''This function returns a list of traces for pie charts'''\n",
        "    for dictionary in dictionary_list:\n",
        "        trace = go.Pie(values = list(dictionary.values()), labels =
list(dictionary.keys()),\n",
        "            textposition = textposition, textinfo='percent+label',\n",
        "            marker=dict(colors=colors_list))\n",
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        "    return trace_list\n",
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    ]
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100, 1)\n",
        "\n",
        "fig = px.bar(percent_count, orientation='h', text_auto=True)\n",
        "\n",
        "fig.update_traces(marker=dict(color=['red']))\n",
        "\n",
        "fig.update_layout(height=400, width=700,\n",
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        "                    showlegend=False,\n",
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    ]
}

```

```

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255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path class=\"xgrid crisp\"
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```



```

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transform="translate(258.20625,70)\\">35.2</text></g></g></g></g></g><g
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transform="translate(321.41999999999996,0)\\">30</text></g><g class="xtick\"><text
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transform="translate(555.8399999999999,0)\\">60</text></g></g><g
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pre; opacity: 1;\\">Male</text></g></g><g class="overaxes-above\"/></g></g><g
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class="geolayer\"/><g class="funnelarealayer\"/><g class="pielayer\"/><g
class="iciclelayer\"/><g class="treemaplayer\"/><g class="sunburstlayer\"/><g
class="glimages\"/><defs id="topdefs-8981db\"><g class="clips\"/></defs><g
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class="infolayer\"><g class="g-gtitle\"><text class="gtitle\" x="35\" y="30\"
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sans-serif; font-size: 20px; fill: rgb(42, 63, 95); opacity: 1; font-weight:
normal; white-space: pre;\\">Gender Percentage Count of Students</text></g><g
class="g-xtitle\"><text class="xtitle\" x="353.5\" y="364.4\" text-
anchor="middle\" style="font-family: 'Open Sans', verdana, arial, sans-serif;
font-size: 17px; fill: rgb(42, 63, 95); opacity: 1; font-weight: normal; white-
space: pre;\\">%count</text></g><g class="g-ytitle\"

```

```
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```

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{
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    "'Female Students'],\n",
    "                    specs=[[{'type': 'pie'}, {'type': 'pie'}]])\n",
    "\n",
    "# Creating empty trace list\n",
    "traces = []\n",
    "make_pie(genders_dictionaries, traces, ['teal', 'goldenrod',\n",
    "'slateblue'])\n",
    "\n",
    "# Adding pie charts\n",
    "fig.add_trace(traces[0], row=1, col=1)\n",
    "fig.add_trace(traces[1], row=1, col=2)\n",
    "\n",
    "# Updating layout\n",

```

```

"fig.update_layout(height=500, width=800,\n",
"                  title='Gender distribution of students',\n",
"                  showlegend = False,\n",
"                  font=dict(size=14))\n",
"\n",
"fig.write_image('fig.svg', engine='kaleido')\n",
"fig.show('svg')"
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arial, sans-serif; font-size: 14px; fill: rgb(255, 255, 255); fill-opacity: 1;
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```

```

y=\0\>Enrolled</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\"
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size: 14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"><tspan
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Students</text></g></g></g><g class=\"annotation\" data-index=\"1\"
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      "** There was a significant number of female students (64.8%) compared to the males (35.2%).\n",
      "** Also it is observed that there was a higher rate of dropout students that were male (45.1%), compared to the females (25.1%).\n"
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      "2: 'Animation and Multimedia Design', 3: 'Social Service (evening attendance)',\n",
      "4: 'Agronomy', 5: 'Communication Design', 6: 'Veterinary Nursing',\n",
      "7: 'Informatics Engineering', 8: 'Equiniculture', 9: 'Management',\n",
      "10: 'Social Service', 11: 'Tourism', 12: 'Nursing', 13: 'Oral Hygiene',\n",
      "14: 'Advertising and Marketing Management', 15: 'Journalism and Communication',\n",
      "16: 'Basic Education', 17: 'Management (evening attendance)'})"
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      "\n",
      "fig.update_traces(marker=dict(color=['red', 'orangered', 'darkorange', 'orange', 'yellow']))\n",
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```

```

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below\"/><g class=\"overaxes-below\"/><g class=\"plot\"

```

```

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y=\\"0\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
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y=\\"0\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;\\"
transform=\\"translate(267.5491015625,310.478749999999993)scale(0.6837499999999999)\\"
>355</text></g><g class=\\"point\\"><path d=\\"M0,294.35V277.41H264.56V294.35Z\\"
style=\\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(255, 165,
0); fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\\"/><text
class=\\"bartext bartext-inside\\" text-anchor=\\"middle\\" data-notex=\\"1\\" x=\\"0\\"
y=\\"0\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;\\"
transform=\\"translate(253.4191015625,289.29875)scale(0.6837499999999999)\\">337</
text></g><g class=\\"point\\"><path d=\\"M0,273.18V256.24H259.85V273.18Z\\"
style=\\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(255, 255,
0); fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\\"/><text
class=\\"bartext bartext-inside\\" text-anchor=\\"middle\\" data-notex=\\"1\\" x=\\"0\\"
y=\\"0\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;\\"
transform=\\"translate(248.709101562500002,268.12875)scale(0.6837499999999999)\\">331<
/text></g><g class=\\"point\\"><path d=\\"M0,252V235.06H210.39V252Z\\" style=\\"vector-
effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0); fill-opacity: 1;
stroke: rgb(229, 236, 246); stroke-opacity: 1;\\"/><text class=\\"bartext bartext-
inside\\" text-anchor=\\"middle\\" data-notex=\\"1\\" x=\\"0\\" y=\\"0\\" style=\\"font-
family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(255,
255, 255); fill-opacity: 1; white-space: pre;\\"
transform=\\"translate(199.2491015625,246.94875)scale(0.6837499999999999)\\">268</
text></g><g class=\\"point\\"><path d=\\"M0,230.82V213.88H210.39V230.82Z\\"
style=\\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\\"/><text
class=\\"bartext bartext-inside\\" text-anchor=\\"middle\\" data-notex=\\"1\\" x=\\"0\\"
y=\\"0\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\\"
transform=\\"translate(199.2491015625,225.768749999999998)scale(0.6837499999999999)\\"
>268</text></g><g class=\\"point\\"><path d=\\"M0,209.65V192.71H197.83V209.65Z\\"
style=\\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\\"/><text
class=\\"bartext bartext-inside\\" text-anchor=\\"middle\\" data-notex=\\"1\\" x=\\"0\\"
y=\\"0\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\\"
transform=\\"translate(186.6891015625,204.59875)scale(0.6837499999999999)\\">252</
text></g><g class=\\"point\\"><path d=\\"M0,188.47V171.53H177.42V188.47Z\\"

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style=\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\"
y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(166.2791015625,183.41875)scale(0.6837499999999999)\">226</
text></g><g class=\"point\"><path d=\"M0,167.29V150.35H168.79V167.29Z\"
style=\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\"
y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(157.6491015625,162.23874999999998)scale(0.6837499999999999)\"
>215</text></g><g class=\"point\"><path d=\"M0,146.12V129.18H168.79V146.12Z\"
style=\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\"
y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(157.6491015625,141.06875)scale(0.6837499999999999)\">215</
text></g><g class=\"point\"><path d=\"M0,124.94V108H164.86V124.94Z\"
style=\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\"
y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(153.71910156250001,119.88875)scale(0.6837499999999999)\">210<
/text></g><g class=\"point\"><path d=\"M0,103.76V86.82H150.73V103.76Z\"
style=\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\"
data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial,
sans-serif; font-size: 14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-
space: pre;\"
transform=\"translate(139.5891015625,98.70875)scale(0.6837500000000007)\">192</
text></g><g class=\"point\"><path d=\"M0,82.59V65.65H133.46V82.59Z\"
style=\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\"
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14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(122.31910156250001,77.53875000000001)scale(0.6837499999999999)\"
>170</text></g><g class=\"point\"><path d=\"M0,61.41V44.47H110.69V61.41Z\"
style=\"vector-effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0);
fill-opacity: 1; stroke: rgb(229, 236, 246); stroke-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\"
y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
14px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(99.5491015625,56.35875)scale(0.6837499999999999)\">141</
text></g><g class=\"point\"><path d=\"M0,40.24V23.29H67.51V40.24Z\" style=\"vector-
effect: none; opacity: 1; stroke-width: 0.5px; fill: rgb(0, 0, 0); fill-opacity: 1;
stroke: rgb(229, 236, 246); stroke-opacity: 1;\"/><text class=\"bartext bartext-
inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-
family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(255,
255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(58.894198813056384,35.23087537091988)scale(0.6931750741839764)
)rotate(90 0.1015625 -5)\">86</text></g><g class=\"point\"><path
d=\"M0,19.06V2.12H9.42V19.06Z\" style=\"vector-effect: none; opacity: 1; stroke-
width: 0.5px; fill: rgb(0, 0, 0); fill-opacity: 1; stroke: rgb(229, 236, 246);

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anchor="middle" data-notex="1" x="0" y="0" style="font-family: 'Open
Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-
opacity: 1; white-space: pre;\"
transform="translate(20.216875,15.59)\">12</text></g></g></g></g></g><g
class="overplot\"/><path class="xlines-above crisp" d="M0,0" style="fill:
none;\"/><path class="ylines-above crisp" d="M0,0" style="fill: none;\"/><g
class="overlines-above\"/><g class="xaxislayer-above\"><g class="xtick\"><text
text-anchor="middle" x="0" y="435" transform="translate(287,0)\"
style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity:
1;\">0</text></g><g class="xtick\"><text text-anchor="middle" x="0" y="435\"
style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\"
transform="translate(365.51,0)\">100</text></g><g class="xtick\"><text text-
anchor="middle" x="0" y="435" style="font-family: 'Open Sans', verdana,
arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-
space: pre; opacity: 1;\" transform="translate(444.01,0)\">200</text></g><g
class="xtick\"><text text-anchor="middle" x="0" y="435" style="font-family:
'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95);
fill-opacity: 1; white-space: pre; opacity: 1;\"
transform="translate(522.52,0)\">300</text></g><g class="xtick\"><text text-
anchor="middle" x="0" y="435\" style="font-family: 'Open Sans', verdana,
arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-
space: pre; opacity: 1;\" transform="translate(601.02,0)\">400</text></g><g
class="xtick\"><text text-anchor="middle" x="0" y="435\" style="font-family:
'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95);
fill-opacity: 1; white-space: pre; opacity: 1;\"
transform="translate(679.53,0)\">500</text></g><g class="xtick\"><text text-
anchor="middle" x="0" y="435\" style="font-family: 'Open Sans', verdana,
arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-
space: pre; opacity: 1;\" transform="translate(758.03,0)\">600</text></g><g
class="xtick\"><text text-anchor="middle" x="0" y="435\" style="font-family:
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fill-opacity: 1; white-space: pre; opacity: 1;\"
transform="translate(836.54,0)\">700</text></g><g class="xtick\"><text text-
anchor="middle" x="0" y="435\" style="font-family: 'Open Sans', verdana,
arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-
space: pre; opacity: 1;\" transform="translate(915.04,0)\">800</text></g></g><g
class="yaxislayer-above\"><g class="ytick\"><text text-anchor="end" x="286\"
y="4.8999999999999995\" transform="translate(0,409.41)\" style="font-family:
'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95);
fill-opacity: 1; white-space: pre; opacity: 1;\">Nursing</text></g><g
class="ytick\"><text text-anchor="end" x="286\" y="4.8999999999999995\"
transform="translate(0,388.24)\" style="font-family: 'Open Sans', verdana, arial,
sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space:
pre; opacity: 1;\">Management</text></g><g class="ytick\"><text text-
anchor="end" x="286\" y="4.8999999999999995\" transform="translate(0,367.06)\"
style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\">Social
Service</text></g><g class="ytick\"><text text-anchor="end" x="286\"
y="4.8999999999999995\" transform="translate(0,345.88)\" style="font-family:
'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95);
fill-opacity: 1; white-space: pre; opacity: 1;\">Veterinary Nursing</text></g><g
class="ytick\"><text text-anchor="end" x="286\" y="4.8999999999999995\"
transform="translate(0,324.71)\" style="font-family: 'Open Sans', verdana, arial,
sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space:
pre; opacity: 1;\">Journalism and Communication</text></g><g class="ytick\"><text
text-anchor="end" x="286\" y="4.8999999999999995\"

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transform=\\"translate(0,303.53)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Advertising and Marketing Management</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,282.35)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Management (evening attendance)</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,261.18)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Tourism</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,240)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Communication Design</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,218.82)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Animation and Multimedia Design</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,197.65)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Social Service (evening attendance)</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,176.47)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Agronomy</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,155.290000000000002)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Basic Education</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,134.12)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Informatics Engineering</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,112.94)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Equiniculture</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,91.76)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Oral Hygiene</text></g><g class=\\"ytick\\\"><text text-anchor=\\"end\\\" x=\\"286\\\" y=\\"4.8999999999999995\\\" transform=\\"translate(0,70.59)\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\\\">Biofuel Production Technologies</text></g></g><g class=\\"overaxes-above\\\"></g><g class=\\"polarlayer\\\"></g><g class=\\"smithlayer\\\"></g><g class=\\"ternarylayer\\\"></g><g class=\\"geolayer\\\"></g><g class=\\"funnelarealayer\\\"></g><g class=\\"pielayer\\\"></g><g class=\\"iciclelayer\\\"></g><g class=\\"treemaplayer\\\"></g><g class=\\"sunburstlayer\\\"></g><g class=\\"glimages\\\"><defs id=\\"topdefs-188c1c\\\"><g class=\\"clips\\\"></defs><g class=\\"layer-above\\\"><g class=\\"imagelayer\\\"><g class=\\"shapelayer\\\"></g><g class=\\"infolayer\\\"><g class=\\"g-gtitle\\\"><text class=\\"gtitle\\\" x=\\"50\\\" y=\\"30\\\" text-anchor=\\"start\\\" dy=\\"0em\\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 20px; fill: rgb(42, 63, 95); opacity: 1; font-weight: normal; white-space: pre;\\\">Courses enrolled by students</text></g><g class=\\"g-xtitle\\\"><text class=\\"xtitle\\\" x=\\"603.5\\\" y=\\"464.4\\\" text-anchor=\\"middle\\\" style=\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 17px; fill: rgb(42, 63, 95); opacity: 1; font-weight: normal; white-space: pre;\\\">Total</text></g><g class=\\"g-ytitle\\\">

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font-size: 17px; fill: rgb(42, 63, 95); opacity: 1; font-weight: normal; white-
space: pre;\>Courses</text></g></g></svg>"
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x=\"250\" y=\"60\" width=\"825\" height=\"1460\"/></clipPath></g><g
class=\"gradients\"/><g class=\"patterns\"/></defs><g class=\"bglayer\"><rect
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rgb(229, 236, 246); fill-opacity: 1; stroke-width: 0;\"/></g><g class=\"layer-
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class=\"cartesianlayer\"><g class=\"subplot xy\"><g class=\"layer-subplot\"><g
class=\"shapelayer\"/><g class=\"imagelayer\"/></g><g class=\"minor-gridlayer\"><g
class=\"x\"/><g class=\"y\"/></g><g class=\"gridlayer\"><g class=\"x\"><path
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style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"xgrid crisp\" transform=\"translate(469.11,0)\" d=\"M0,60v1460\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"xgrid crisp\" transform=\"translate(578.66000000000001,0)\" d=\"M0,60v1460\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"xgrid crisp\" transform=\"translate(688.21,0)\" d=\"M0,60v1460\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"xgrid crisp\" transform=\"translate(797.77,0)\" d=\"M0,60v1460\"
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class=\"xgrid crisp\" transform=\"translate(907.32,0)\" d=\"M0,60v1460\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"xgrid crisp\" transform=\"translate(1016.87,0)\" d=\"M0,60v1460\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/></g><g
class=\"y\"/></g><g class=\"zerolinelayer\"><path class=\"xzl zl crisp\"
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<path class="xlines-below"/>
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<g class="point">
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</g>
<g class="point">
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</g>
<g class="point">
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</g>
<g class="point">
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</g>
<g class="point">
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</g>
<g class="point">
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</g>
<g class="point">
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</g>
<g class="point">
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</g>
<g class="point">
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pre;" transform="translate(371.304375,756.9000000000001)">35.3</text></g><g
class="point"><path d="M0,678.47V655.57H606.04V678.47Z" style="vector-effect:
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1;"><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(591.024375,671.02)">55.3</text></g><g
class="point"><path d="M0,592.59V569.69H555.94V592.59Z" style="vector-effect:
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notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(540.924375,585.1400000000001)">50.7</text></g><g
class="point"><path d="M0,506.71V483.8H168.76V506.71Z" style="vector-effect:
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1;"><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(153.744375,499.255)">15.4</text></g><g
class="point"><path d="M0,420.82V397.92H448.65V420.82Z" style="vector-effect:
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notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(433.634375,413.37)">41.0</text></g><g
class="point"><path d="M0,334.94V312.04H292.58V334.94Z" style="vector-effect:
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notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(277.564375,327.49)">26.7</text></g><g
class="point"><path d="M0,249.06V226.16H361.78V249.06Z" style="vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(27, 158, 119); fill-opacity:
1;"><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255,
255, 255); fill-opacity: 1; white-space: pre;"
transform="translate(346.764375,241.61)">33.0</text></g><g class="point"><path
d="M0,163.18V140.27H420.38V163.18Z" style="vector-effect: none; opacity: 1;
stroke-width: 0px; fill: rgb(27, 158, 119); fill-opacity: 1;"><text
class="bartext bartext-inside" text-anchor="middle" data-notex="1" x="0"
y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;"
transform="translate(405.364375,155.72500000000002)">38.4</text></g><g
class="point"><path d="M0,77.29V54.39H388.34V77.29Z" style="vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(27, 158, 119); fill-opacity:
1;"><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(373.324375,69.84)">35.4</text></g></g></g><g
class="trace bars" style="opacity: 1;"><g class="points"><g
class="point"><path d="M0,1428.51V1405.61H489.17V1428.51Z" style="vector-
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1;"><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(474.154375,1421.06)">44.7</text></g><g
class="point"><path d="M0,1342.63V1319.73H644.72V1342.63Z" style="vector-
effect: none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity:
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1;\"/>

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none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity:
1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(768.734375,476.35)">71.5</text></g><g
class="point"><path d="M0,397.92V375.02H453.86V397.92Z" style="vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity:
1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(438.844375,390.47)">41.4</text></g><g
class="point"><path d="M0,312.04V289.14H559.14V312.04Z" style="vector-effect:
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notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(544.124375,304.59000000000003)">51.0</text></g><g
class="point"><path d="M0,226.16V203.25H626.75V226.16Z" style="vector-effect:
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1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(611.734375,218.70499999999998)">57.2</text></g><g
class="point"><path d="M0,140.27V117.37H458.6V140.27Z" style="vector-effect:
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1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(443.584375,132.82)">41.9</text></g><g
class="point"><path d="M0,54.39V31.49H510.98V54.39Z" style="vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity:
1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(495.964375,46.94)">46.6</text></g></g><g><g
class="trace bars" style="opacity: 1;"/><g class="points"><g
class="point"><path d="M0,1405.61V1382.71H188.53V1405.61Z" style="vector-
effect: none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-
opacity: 1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(173.514375,1398.1599999999999)">17.2</text></g><g
class="point"><path d="M0,1319.73V1296.82H203.59V1319.73Z" style="vector-
effect: none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-
opacity: 1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill:
rgb(255, 255, 255); fill-opacity: 1; white-space: pre;"
transform="translate(188.574375,1312.275)">18.6</text></g><g><g
class="point"><path d="M0,1233.84V1210.94H178.24V1233.84Z" style="vector-
effect: none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-
opacity: 1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;" transform="translate(163.224375,1226.3899999999999)">16.3</text></g><g
class="point"><path d="M0,1147.96V1125.06H129.61V1147.96Z" style="vector-
effect: none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-
opacity: 1;"/><text class="bartext bartext-inside" text-anchor="middle" data-
notex="1" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-

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serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\\" transform=\\\"translate(114.594375000000001,1140.51)\\\">11.8</text></g><g
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effect: none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-
opacity: 1;\\\"/><text class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-
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serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
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1;\\\"/><text class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-
notex=\\\"1\\\" x=\\\"0\\\" y=\\\"0\\\" style=\\\"font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
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class=\\\"point\\\"><path d=\\\"M0,890.31V867.41H273.88V890.31Z\\\" style=\\\"vector-effect:
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1;\\\"/><text class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-
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serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
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serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\\" transform=\\\"translate(397.424375,796.98)\\\">37.6</text></g><g
class=\\\"point\\\"><path d=\\\"M0,718.55V695.65H311.36V718.55Z\\\" style=\\\"vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\\\"/><text class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-
notex=\\\"1\\\" x=\\\"0\\\" y=\\\"0\\\" style=\\\"font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\\" transform=\\\"translate(296.344375,711.0999999999999)\\\">28.4</text></g><g
class=\\\"point\\\"><path d=\\\"M0,632.67V609.76H163.16V632.67Z\\\" style=\\\"vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\\\"/><text class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-
notex=\\\"1\\\" x=\\\"0\\\" y=\\\"0\\\" style=\\\"font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
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class=\\\"point\\\"><path d=\\\"M0,546.78V523.88H220.74V546.78Z\\\" style=\\\"vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\\\"/><text class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-
notex=\\\"1\\\" x=\\\"0\\\" y=\\\"0\\\" style=\\\"font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\\" transform=\\\"translate(205.724375,539.3299999999999)\\\">20.1</text></g><g
class=\\\"point\\\"><path d=\\\"M0,460.9V438H143.02V460.9Z\\\" style=\\\"vector-effect: none;
opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity: 1;\\\"/><text
class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-notex=\\\"1\\\" x=\\\"0\\\"
y=\\\"0\\\" style=\\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\\"
transform=\\\"translate(128.004375,453.45)\\\">13.1</text></g><g class=\\\"point\\\"><path
d=\\\"M0,375.02V352.12H193.02V375.02Z\\\" style=\\\"vector-effect: none; opacity: 1;
stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity: 1;\\\"/><text
class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-notex=\\\"1\\\" x=\\\"0\\\"
y=\\\"0\\\" style=\\\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\\"
transform=\\\"translate(178.004375,367.57)\\\">17.6</text></g><g class=\\\"point\\\"><path
d=\\\"M0,289.14V266.24H243.81V289.14Z\\\" style=\\\"vector-effect: none; opacity: 1;
stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity: 1;\\\"/><text
class=\\\"bartext bartext-inside\\\" text-anchor=\\\"middle\\\" data-notex=\\\"1\\\" x=\\\"0\\\"

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y="\0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(228.794375,281.69)\">22.3</text></g><g class=\"point\"><path
d=\"M0,203.25V180.35H107.01V203.25Z\" style=\"vector-effect: none; opacity: 1;
stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\"
y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(95.338125,195.8)\">9.8</text></g><g class=\"point\"><path
d=\"M0,117.37V94.47H216.56V117.37Z\" style=\"vector-effect: none; opacity: 1;
stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity: 1;\"/><text
class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\"
y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size:
12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(201.544375,109.92)\">19.8</text></g><g class=\"point\"><path
d=\"M0,31.49V8.59H196.22V31.49Z\" style=\"vector-effect: none; opacity: 1; stroke-
width: 0px; fill: rgb(117, 112, 179); fill-opacity: 1;\"/><text class=\"bartext
bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\"
style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px;
fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"
transform=\"translate(181.204375,24.04)\">17.9</text></g></g></g></g><g
class=\"overplot\"><path class=\"xlines-above crisp\" d=\"M0,0\" style=\"fill:
none;\"/><path class=\"ylines-above crisp\" d=\"M0,0\" style=\"fill: none;\"/><g
class=\"overlines-above\"><g class=\"xaxislayer-above\"><g class=\"xtick\"><text
text-anchor=\"middle\" x=\"0\" y=\"1533\" transform=\"translate(250,0)\"
style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity:
1;\">0</text></g><g class=\"xtick\"><text text-anchor=\"middle\" x=\"0\" y=\"1533\"
style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\"
transform=\"translate(359.55,0)\">10</text></g><g class=\"xtick\"><text text-
anchor=\"middle\" x=\"0\" y=\"1533\" style=\"font-family: 'Open Sans', verdana,
arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity: 1; white-
space: pre; opacity: 1;\" transform=\"translate(469.11,0)\">20</text></g><g
class=\"xtick\"><text text-anchor=\"middle\" x=\"0\" y=\"1533\" style=\"font-
family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63,
95); fill-opacity: 1; white-space: pre; opacity: 1;\"
transform=\"translate(578.6600000000001,0)\">30</text></g><g class=\"xtick\"><text
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y=\"4.199999999999999\"
transform=\"translate(0,1391.18)\" style=\"font-family: 'Open Sans', verdana,

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        "                    barnorm = 'percent', barmode = 'group'))\n",
        "\n",
        "# Update layout\n",
        "fig.update_layout(title='Courses', xaxis_title = '%count')\n",
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            "\n",
            "The course that had the highest dropout rate was **Biofuel Production\n",
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            "followed by **Equiniculture (55.3%)**.\n",
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            "3: 'Widower',\n",
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```

```

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class=\"imagelayer\"/></g><g class=\"minor-gridlayer\"><g class=\"x\"/><g
class=\"y\"/></g><g class=\"gridlayer\"><g class=\"x\"/><g class=\"y\"><path
class=\"ygrid crisp\" transform=\"translate(0,368.7)\" d=\"M80,0h992\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"ygrid crisp\" transform=\"translate(0,317.4)\" d=\"M80,0h992\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"ygrid crisp\" transform=\"translate(0,266.1)\" d=\"M80,0h992\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"ygrid crisp\" transform=\"translate(0,214.8)\" d=\"M80,0h992\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"ygrid crisp\" transform=\"translate(0,163.5)\" d=\"M80,0h992\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width: 1px;\"/><path
class=\"ygrid crisp\" transform=\"translate(0,112.2)\" d=\"M80,0h992\"
style=\"stroke: rgb(255, 255, 255); stroke-opacity: 1; stroke-width:
1px;\"/></g></g><g class=\"zerolinelayer\"><path class=\"yzl zl crisp\"
transform=\"translate(0,420)\" d=\"M80,0h992\" style=\"stroke: rgb(255, 255, 255);
stroke-opacity: 1; stroke-width: 2px;\"/></g><path class=\"xlines-below\"/><path
class=\"ylines-below\"/><g class=\"overlines-below\"/><g class=\"xaxislayer-
below\"/><g class=\"yaxislayer-below\"/><g class=\"overaxes-below\"/><g
class=\"plot\" transform=\"translate(80,60)\" clip-
path=\"url(#clip014427xyplot)\"><g class=\"barlayer mlayer\"><g class=\"trace
bars\" style=\"opacity: 1;\"><g class=\"points\"><g class=\"point\"><path
d=\"M16.53,360V205.01H60.62V360Z\" style=\"vector-effect: none; opacity: 1; stroke-
width: 0px; fill: rgb(27, 158, 119); fill-opacity: 1;\"/><text class=\"bartext

```


bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(38.4109375,219.01)\">30.2</text></g><g class=\"point\"><path d=\"M181.87,360V117.71H225.96V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(27, 158, 119); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(203.75093750000002,131.70999999999998)\">47.2</text></g><g class=\"point\"><path d=\"M347.2,360V123.23H391.29V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(27, 158, 119); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(369.0809375,137.23000000000002)\">46.2</text></g><g class=\"point\"><path d=\"M512.53,360V231.75H556.62V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(27, 158, 119); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(534.4109375,245.75)\">25.0</text></g><g class=\"point\"><path d=\"M677.87,360V134.28H721.96V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(27, 158, 119); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(699.7509375,148.28)\">44.0</text></g><g class=\"point\"><path d=\"M843.2,360V18H887.29V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(27, 158, 119); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(865.0809375,32)\">66.7</text></g></g><g class=\"trace bars\" style=\"opacity: 1;\"><g class=\"points\"><g class=\"point\"><path d=\"M60.62,360V96.24H104.71V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(82.50093749999999,110.24)\">51.4</text></g><g class=\"point\"><path d=\"M225.96,360V159.67H270.04V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(247.8359375,173.67)\">39.1</text></g><g class=\"point\"><path d=\"M391.29,360V173.97H435.38V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(413.17093750000004,187.97)\">36.3</text></g><g class=\"point\"><path d=\"M556.62,360V231.75H600.71V360Z\" style=\"vector-effect: none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity: 1;\"/><text class=\"bartext bartext-inside\" text-anchor=\"middle\" data-notex=\"1\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\" transform=\"translate(578.5009375,245.75)\">25.0</text></g></g>

```

class=\point\"><path d=\M721.96,360V134.28H766.04V360Z\" style=\vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity:
1;\"/><text class=\bartext bartext-inside\ text-anchor=\middle\ data-
notex=\1\ x=\0\ y=\0\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\ transform=\translate(743.8359375,148.28)\>44.0</text></g><g
class=\point\"><path d=\M887.29,360V274.5H931.38V360Z\" style=\vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(217, 95, 2); fill-opacity:
1;\"/><text class=\bartext bartext-inside\ text-anchor=\middle\ data-
notex=\1\ x=\0\ y=\0\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\ transform=\translate(909.1709375,288.5)\>16.7</text></g></g><g
class=\trace bars\ style=\opacity: 1;\><g class=\points\><g
class=\point\"><path d=\M104.71,360V265.75H148.8V360Z\" style=\vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\"/><text class=\bartext bartext-inside\ text-anchor=\middle\ data-
notex=\1\ x=\0\ y=\0\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\ transform=\translate(126.5909375,279.75)\>18.4</text></g><g
class=\point\"><path d=\M270.04,360V289.61H314.13V360Z\" style=\vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\"/><text class=\bartext bartext-inside\ text-anchor=\middle\ data-
notex=\1\ x=\0\ y=\0\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\ transform=\translate(291.92093750000004,303.61)\>13.7</text></g><g
class=\point\"><path d=\M435.38,360V269.8H479.47V360Z\" style=\vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\"/><text class=\bartext bartext-inside\ text-anchor=\middle\ data-
notex=\1\ x=\0\ y=\0\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\ transform=\translate(457.2609375,283.8)\>17.6</text></g><g
class=\point\"><path d=\M600.71,360V103.5H644.8V360Z\" style=\vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\"/><text class=\bartext bartext-inside\ text-anchor=\middle\ data-
notex=\1\ x=\0\ y=\0\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\ transform=\translate(622.5909375,117.5)\>50.0</text></g><g
class=\point\"><path d=\M766.04,360V298.44H810.13V360Z\" style=\vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\"/><text class=\bartext bartext-inside\ text-anchor=\middle\ data-
notex=\1\ x=\0\ y=\0\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\ transform=\translate(787.9209375,312.44)\>12.0</text></g><g
class=\point\"><path d=\M931.38,360V274.5H975.47V360Z\" style=\vector-effect:
none; opacity: 1; stroke-width: 0px; fill: rgb(117, 112, 179); fill-opacity:
1;\"/><text class=\bartext bartext-inside\ text-anchor=\middle\ data-
notex=\1\ x=\0\ y=\0\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space:
pre;\ transform=\translate(953.2609375,288.5)\>16.7</text></g></g></g></g></g><g
class=\overplot\><path class=\xlines-above crisp\ d=\M0,0\ style=\fill:
none;\><path class=\ylines-above crisp\ d=\M0,0\ style=\fill: none;\><g
class=\overlines-above\><g class=\xaxislayer-above\><g class=\xtick\><text
text-anchor=\middle\ x=\0\ y=\433\
transform=\translate(162.67000000000002,0)\ style=\font-family: 'Open Sans',
verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity:
1; white-space: pre; opacity: 1;\>Single</text></g><g class=\xtick\><text text-
anchor=\middle\ x=\0\ y=\433\ transform=\translate(328,0)\ style=\font-
family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63,
95); fill-opacity: 1; white-space: pre; opacity: 1;\>Married</text></g><g

```

```

class=\xtick\"><text text-anchor=\middle\ x=\0\ y=\433\
transform=\translate(493.33,0)\ style=\font-family: 'Open Sans', verdana, arial,
sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space:
pre; opacity: 1;\>Divorced</text></g><g class=\xtick\"><text text-
anchor=\middle\ x=\0\ y=\433\ transform=\translate(658.67,0)\ style=\font-
family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63,
95); fill-opacity: 1; white-space: pre; opacity: 1;\>Widower</text></g><g
class=\xtick\"><text text-anchor=\middle\ x=\0\ y=\433\
transform=\translate(824,0)\ style=\font-family: 'Open Sans', verdana, arial,
sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space:
pre; opacity: 1;\>Facto union</text></g><g class=\xtick\"><text text-
anchor=\middle\ x=\0\ y=\433\ transform=\translate(989.33,0)\ style=\font-
family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63,
95); fill-opacity: 1; white-space: pre; opacity: 1;\>Legally
Separated</text></g></g><g class=\yaxislayer-above\><g class=\ytick\"><text
text-anchor=\end\ x=\79\ y=\4.199999999999999\ transform=\translate(0,420)\
style=\font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity:
1;\>0</text></g><g class=\ytick\"><text text-anchor=\end\ x=\79\
y=\4.199999999999999\ style=\font-family: 'Open Sans', verdana, arial, sans-
serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre;
opacity: 1;\ transform=\translate(0,368.7)\>10</text></g><g
class=\ytick\"><text text-anchor=\end\ x=\79\ y=\4.199999999999999\
style=\font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\
transform=\translate(0,317.4)\>20</text></g><g class=\ytick\"><text text-
anchor=\end\ x=\79\ y=\4.199999999999999\ style=\font-family: 'Open Sans',
verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity:
1; white-space: pre; opacity: 1;\ transform=\translate(0,266.1)\>30</text></g><g
class=\ytick\"><text text-anchor=\end\ x=\79\ y=\4.199999999999999\
style=\font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\
transform=\translate(0,214.8)\>40</text></g><g class=\ytick\"><text text-
anchor=\end\ x=\79\ y=\4.199999999999999\ style=\font-family: 'Open Sans',
verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity:
1; white-space: pre; opacity: 1;\ transform=\translate(0,163.5)\>50</text></g><g
class=\ytick\"><text text-anchor=\end\ x=\79\ y=\4.199999999999999\
style=\font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px;
fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;\
transform=\translate(0,112.2)\>60</text></g><g class=\ytick\"><text text-
anchor=\end\ x=\79\ y=\4.199999999999999\ style=\font-family: 'Open Sans',
verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity:
1; white-space: pre; opacity: 1;\
transform=\translate(0,60.9)\>70</text></g></g><g
class=\overaxes-above\></g></g><g class=\polarlayer\><g
class=\smithlayer\><g class=\ternarylayer\><g class=\geolayer\><g
class=\funnelarealayer\><g class=\pielayer\><g class=\iciclelayer\><g
class=\treemaplayer\><g class=\sunburstlayer\><g class=\glimages\><defs
id=\topdefs-014427\><g class=\clips\><clipPath id=\legend014427\><rect
width=\96\ height=\86\ x=\0\ y=\0\></clipPath></defs><g class=\layer-
above\><g class=\imagelayer\><g class=\shapelayer\></g><g
class=\infolayer\><g class=\legend\ pointer-events=\all\
transform=\translate(1091.8400000000001,60)\><rect class=\bg\ shape-
rendering=\crispEdges\ width=\96\ height=\86\ x=\0\ y=\0\ style=\stroke:
rgb(68, 68, 68); stroke-opacity: 1; fill: rgb(255, 255, 255); fill-opacity: 1;
stroke-width: 0px;\></g><g class=\scrollbox\ transform=\ clip-
path=\url(#legend014427)\><text class=\legendtitletext\ text-anchor=\start\
x=\2\ y=\18.2\ style=\font-family: 'Open Sans', verdana, arial, sans-serif;
font-size: 14px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space:

```

```

pre;">Target</text><g class="groups" transform=""><g class="traces"
transform="translate(0,32.7)" style="opacity: 1;"><text class="legendtext"
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Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-
opacity: 1; white-space: pre;">Dropout</text><g class="layers" style="opacity:
1;"><g class="legendfill"/><g class="legendlines"/><g
class="legendsymbols"><g class="legendpoints"><path class="legendundefined"
d="M6,6H-6V-6H6Z" transform="translate(20,0)" style="stroke-width: 0px; fill:
rgb(27, 158, 119); fill-opacity: 1;"></g></g></g><rect class="legendtoggle"
x="0" y="-9.5" width="90.359375" height="19" style="fill: rgb(0, 0, 0);
fill-opacity: 0;"></g></g><g class="groups" transform=""><g class="traces"
transform="translate(0,51.7)" style="opacity: 1;"><text class="legendtext"
text-anchor="start" x="40" y="4.680000000000001" style="font-family: 'Open
Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-
opacity: 1; white-space: pre;">Graduate</text><g class="layers" style="opacity:
1;"><g class="legendfill"/><g class="legendlines"/><g
class="legendsymbols"><g class="legendpoints"><path class="legendundefined"
d="M6,6H-6V-6H6Z" transform="translate(20,0)" style="stroke-width: 0px; fill:
rgb(217, 95, 2); fill-opacity: 1;"></g></g></g><rect class="legendtoggle"
x="0" y="-9.5" width="90.359375" height="19" style="fill: rgb(0, 0, 0);
fill-opacity: 0;"></g></g><g class="groups" transform=""><g class="traces"
transform="translate(0,70.7)" style="opacity: 1;"><text class="legendtext"
text-anchor="start" x="40" y="4.680000000000001" style="font-family: 'Open
Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-
opacity: 1; white-space: pre;">Enrolled</text><g class="layers" style="opacity:
1;"><g class="legendfill"/><g class="legendlines"/><g
class="legendsymbols"><g class="legendpoints"><path class="legendundefined"
d="M6,6H-6V-6H6Z" transform="translate(20,0)" style="stroke-width: 0px; fill:
rgb(117, 112, 179); fill-opacity: 1;"></g></g></g><rect class="legendtoggle"
x="0" y="-9.5" width="90.359375" height="19" style="fill: rgb(0, 0, 0);
fill-opacity: 0;"></g></g></g><rect class="scrollbar" rx="20" ry="3"
width="0" height="0" x="0" y="0" style="fill: rgb(128, 139, 164); fill-
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sans-serif; font-size: 17px; fill: rgb(42, 63, 95); opacity: 1; font-weight:
normal; white-space: pre;">Marital status</text></g><g class="g-xtitle"><text
class="xtitle" x="576" y="460.3" text-anchor="middle" style="font-family:
'Open Sans', verdana, arial, sans-serif; font-size: 14px; fill: rgb(42, 63, 95);
opacity: 1; font-weight: normal; white-space: pre;">Marital status</text></g><g
class="g-ytitle"><text class="ytitle" transform="rotate(-90,41.340625,240)"
x="41.340625" y="240" text-anchor="middle" style="font-family: 'Open Sans',
verdana, arial, sans-serif;
font-size: 14px; fill: rgb(42, 63, 95); opacity: 1; font-weight: normal; white-
space: pre;">%count</text></g></svg>
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"metadata": {}
}
],
},
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},
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"***Observation**\n",
"\n",
"* Vast majority of the students are single, however **30.2% of single
students** dropout.\n",

```

"** Another thing to note is that **legally seperated students (66.7)** had the highest percentage of dropouts followed by **Married students (47.2%)**."

```
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  },
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      "For function below is created to simplify the process and reduce repeatability."
    ]
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      "def sub_plots(chart_to_plot, row, col):\n",
      "    '''This function generates the list of subplots'''\n",
      "    cols = chart_to_plot * col\n",
      "    rows = [cols] * row\n",
      "    return rows\n"
    ]
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    },
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      "\n",
      "Next, we will analyze the financial status of students to understand how scholarship status, debt status, and tuition payment status correlate with dropout rates.\n",
      "\n"
    ]
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      "# Converting columns back to categorical\n",
      "to_convert = ['Debtor', 'Tuition fees up to date', 'Scholarship holder']\n",
      "\n",
      "for i in to_convert:\n",
      "    data_viz[i] = data_viz[i].map({1: 'Yes', 0: 'No'})"
    ]
  },
  },
  {
```

```

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        " {'Dropout': 312, 'Graduate': 101, 'Enrolled': 90}]"
      ]
    },
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          "[{'Graduate': 2180, 'Dropout': 964, 'Enrolled': 752},\n",
          " {'Dropout': 457, 'Enrolled': 42, 'Graduate': 29}]"
        ]
      },
      "metadata": {},
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  ],
  "source": [
    "# Getting dictionaries for students with tuition fees paid/ not paid\n",
    "tuition = data_viz['Tuition fees up to date'].unique()\n",
    "tuition_dictionaries = get_dictionaries(tuition, 'Tuition fees up to\n",
    "date', 'Target', [])\n",
    "tuition_dictionaries"
  ]
]

```

```

},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
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    },
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    "outputId": "992a2a38-1c4d-4cf4-f880-da446d066f07"
  },
  "outputs": [
    {
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        "text/plain": [
          "[{'Graduate': 1374, 'Dropout': 1287, 'Enrolled': 664},\n",
          " {'Graduate': 835, 'Dropout': 134, 'Enrolled': 130}]"
        ]
      },
      "metadata": {},
      "execution_count": 82
    }
  ],
  "source": [
    "# Getting dictionaries for students with scholarship/ no scholarship\n",
    "scholarship = data_viz['Scholarship holder'].unique()\n",
    "scholarship_dictionaries = get_dictionaries(scholarship, 'Scholarship\n",
    holder', 'Target', [])\n",
    "scholarship_dictionaries"
  ]
},
{
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
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      "height": 1000
    },
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    "id": "KeaJ5VkCiIrG"
  },
  "outputs": [
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      "data": {
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        y=\"0\" width=\"1000\" height=\"1000\" style=\"fill: rgb(255, 255, 255); fill-\n",
        opacity: 1;\"/><defs id=\"defs-7d1da6\"><g class=\"clips\"/><g\n",
        class=\"gradients\"/><g class=\"patterns\"/></defs><g class=\"bglayer\"/><g\n",
        class=\"layer-below\"/><g class=\"imagelayer\"/><g class=\"shapelayer\"/></g><g\n",
        class=\"cartesianlayer\"/><g class=\"polarlayer\"/><g class=\"smithlayer\"/><g\n",
        class=\"ternarylayer\"/><g class=\"geolayer\"/><g class=\"funnelarealayer\"/><g\n",
        class=\"pielayer\"/><g class=\"trace\" stroke-linejoin=\"round\" style=\"opacity:\n",
        1;\"><g class=\"slice\"><path class=\"surface\" d=\"M269,217.53333333333333l0,-\n",
        117.53333333333333a117.53333333333332,117.53333333333332 0 1 1 -

```

27.522304986923967,231.79884507091396Z\" style=\"pointer-events: none; fill: rgb(0, 128, 128); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(327.2005093814134,220.65755235679953)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Graduate</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">53.8%</tspan></text></g></g><g class=\"slice\"><path class=\"surface\" d=\"M269,217.53333333333333L-115.04074515122765,24.077196670184243a117.53333333333332,117.53333333333332 0 0 1 115.04074515122765,-141.61053000351757Z\" style=\"pointer-events: none; fill: rgb(218, 165, 32); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(217.31119276411874,172.00455119330596)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Dropout</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">28.3%</tspan></text></g></g><g class=\"slice\"><path class=\"surface\" d=\"M269,217.53333333333333L-27.522304986923995,114.26551173758064a117.53333333333332,117.53333333333332 0 0 1 -87.51844016430366,-90.18831506739639Z\" style=\"pointer-events: none; fill: rgb(106, 90, 205); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(214.03680978183655,267.0647423193683)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Enrolled</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">18%</tspan></text></g></g><g class=\"trace\" stroke-linejoin=\"round\" style=\"opacity: 1;\"><g class=\"slice\"><path class=\"surface\" d=\"M731,217.53333333333333L0,-117.53333333333332a117.53333333333332,117.53333333333332 0 1 1 -80.60681388184075,203.0706117577883Z\" style=\"pointer-events: none; fill: rgb(0, 128, 128); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(785.2928026536156,235.40986750946595)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Dropout</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">62%</tspan></text></g></g><g class=\"slice\"><path class=\"surface\" d=\"M731,217.53333333333333L-111.96092082058735,-35.76082568189123a117.53333333333332,117.53333333333332 0 0 1 111.96092082058735,-81.77250765144208Z\" style=\"pointer-events: none; fill: rgb(218, 165, 32); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(687.2398388857837,154.02723542121657)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Graduate</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">20.1%</tspan></text></g></g><g class=\"slice\"><path class=\"surface\" d=\"M731,217.53333333333333L-80.6068138818408,85.5372784244549a117.53333333333332,117.53333333333332 0 0 1 -31.354106938746554,-121.29810410634613Z\" style=\"pointer-events: none; fill: rgb(106, 90, 205); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(656.7697545066925,232.9162751242746)\">

text-anchor="middle" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;"><tspan class="line" dy="0em" x="0" y="0">Enrolled</tspan><tspan class="line" dy="1.3em" x="0" y="0">17.9%</tspan></text></g></g></g><g class="trace" stroke-linejoin="round" style="opacity: 1;"><g class="slice"><path class="surface" d="M269,510l0,-117.5333333333332a117.5333333333332,117.5333333333332 0 1 1 -42.95655230792455,226.93543138570607Z" style="pointer-events: none; fill: rgb(0, 128, 128); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;"><g class="slicetext"><text data-notex="1" class="slicetext" transform="translate(326.5850672067887,517.1251523129209)" text-anchor="middle" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;"><tspan class="line" dy="0em" x="0" y="0">Graduate</tspan><tspan class="line" dy="1.3em" x="0" y="0">56%</tspan></text></g></g><g class="slice"><path class="surface" d="M269,510l-117.5180491061305,-1.8954099117446799a117.5333333333332,117.5333333333332 0 0 1 117.5180491061305,-115.63792342158864Z" style="pointer-events: none; fill: rgb(218, 165, 32); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;"><g class="slicetext"><text data-notex="1" class="slicetext" transform="translate(220.21963760155526,456.9553032935627)" text-anchor="middle" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;"><tspan class="line" dy="0em" x="0" y="0">Dropout</tspan><tspan class="line" dy="1.3em" x="0" y="0">24.7%</tspan></text></g></g><g class="slice"><path class="surface" d="M269,510l-42.95655230792457,109.40209805237275a117.5333333333332,117.5333333333332 0 0 1 -74.56149679820594,-111.29750796411743Z" style="pointer-events: none; fill: rgb(106, 90, 205); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;"><g class="slicetext"><text data-notex="1" class="slicetext" transform="translate(206.80095743243697,547.8642932174121)" text-anchor="middle" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;"><tspan class="line" dy="0em" x="0" y="0">Enrolled</tspan><tspan class="line" dy="1.3em" x="0" y="0">19.3%</tspan></text></g></g></g><g class="trace" stroke-linejoin="round" style="opacity: 1;"><g class="slice"><path class="surface" d="M731,510l0,-117.5333333333332a117.5333333333332,117.5333333333332 0 1 1 -87.90358241038234,39.51381882660519Z" style="pointer-events: none; fill: rgb(0, 128, 128); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;"><g class="slicetext"><text data-notex="1" class="slicetext" transform="translate(754.7659376488673,559.7956600378991)" text-anchor="middle" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;"><tspan class="line" dy="0em" x="0" y="0">Dropout</tspan><tspan class="line" dy="1.3em" x="0" y="0">86.6%</tspan></text></g></g><g class="slice"><path class="surface" d="M731,510l-56.32773090583067,-103.15653724047144a117.5333333333332,117.5333333333332 0 0 1 56.32773090583067,-14.37679609286188Z" style="pointer-events: none; fill: rgb(218, 165, 32); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;"><g class="slicetext"><text data-notex="1" class="slicetext" transform="translate(712.1258272284186,420.6672186572354)rotate(75.68181818181813)" text-anchor="middle" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;"><tspan class="line" dy="0em" x="0" y="0">Enrolled</tspan><tspan class="line" dy="1.3em" x="0" y="0">7.95%</tspan></text></g></g><g class="slice"><path class="surface" d="M731,510l-87.9035824103823,-78.01951450672819a117.5333333333332,117.5333333333332 0 0 1 31.57585150455163,-

25.13702273374325Z\" style=\"pointer-events: none; fill: rgb(106, 90, 205); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(674.1336371390671,433.56223573845466)scale(0.8193362184901176)rotate(51.477272727275)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Graduate</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">5.49%</tspan></text></g></g></g><g class=\"trace\" stroke-linejoin=\"round\" style=\"opacity: 1;\"><g class=\"slice\"><path class=\"surface\" d=\"M269,802.4666666666667l0,-117.53333333333335a117.53333333333335,117.53333333333335 0 0 1 60.94875465693131,218.02877477329938Z\" style=\"pointer-events: none; fill: rgb(0, 128, 128); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(326.5051149793308,782.5430591252035)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Graduate</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">41.3%</tspan></text></g></g><g class=\"slice\"><path class=\"surface\" d=\"M269,802.4666666666667l-76.57428628693923,89.1653695337507a117.53333333333335,117.53333333333335 0 0 1 76.57428628693923,-206.69870286708405Z\" style=\"pointer-events: none; fill: rgb(218, 165, 32); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(211.7940082823554,777.5908162178214)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Dropout</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">38.7%</tspan></text></g></g><g class=\"slice\"><path class=\"surface\" d=\"M269,802.4666666666667l60.94875465693123,100.49544143996607a117.53333333333335,117.53333333333335 0 0 1 -137.52304094387046,-11.330071906215366Z\" style=\"pointer-events: none; fill: rgb(106, 90, 205); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(262.919115340391,872.471020886836)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Enrolled</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">20%</tspan></text></g></g></g><g class=\"trace\" stroke-linejoin=\"round\" style=\"opacity: 1;\"><g class=\"slice\"><path class=\"surface\" d=\"M731,802.4666666666667l0,-117.53333333333335a117.53333333333335,117.53333333333335 0 1 1 -117.31142396936121,110.31431326650774Z\" style=\"pointer-events: none; fill: rgb(0, 128, 128); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(771.1016823745492,841.4734261410138)\" text-anchor=\"middle\" x=\"0\" y=\"0\" style=\"font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;\"><tspan class=\"line\" dy=\"0em\" x=\"0\" y=\"0\">Graduate</tspan><tspan class=\"line\" dy=\"1.3em\" x=\"0\" y=\"0\">76%</tspan></text></g></g><g class=\"slice\"><path class=\"surface\" d=\"M731,802.4666666666667l-81.48962365096178,-84.69666865744519a117.53333333333335,117.53333333333335 0 0 1 81.48962365096178,-32.83666467588816Z\" style=\"pointer-events: none; fill: rgb(218, 165, 32); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;\"/><g class=\"slicetext\"><text data-notex=\"1\" class=\"slicetext\" transform=\"translate(698.694958532991,719.3059631359574)\" text-anchor=\"middle\"

x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(68, 68, 68); fill-opacity: 1; white-space: pre;"/>
<tspace class="line" dy="0em" x="0" y="0">Dropout</tspace><tspace class="line" dy="1.3em" x="0" y="0">12.2%</tspace></text></g></g><g class="slice"><path class="surface" d="M731,802.4666666666667L-117.31142396936121,-7.219020066825656a117.53333333333335,117.53333333333335 0 0 1 35.82180031839944,-77.47764859061954Z" style="pointer-events: none; fill: rgb(106, 90, 205); fill-opacity: 1; stroke-width: 0; stroke: rgb(68, 68, 68); stroke-opacity: 1;"/>
<g class="slicetext"><text data-notex="1" class="slicetext" transform="translate(652.7366577902596,762.476913307204)" text-anchor="middle" x="0" y="0" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(255, 255, 255); fill-opacity: 1; white-space: pre;"/>
<tspace class="line" dy="0em" x="0" y="0">Enrolled</tspace><tspace class="line" dy="1.3em" x="0" y="0">11.8%</tspace></text></g></g></g></g><g class="iciclelayer"><g class="treemaplayer"><g class="sunburstlayer"><g class="glimages"><defs id="topdefs-7d1da6"><g class="clips"></defs><g class="layer-above"><g class="imagelayer"><g class="shapelayer"></g><g class="infolayer"><g class="g-gtitle"><text class="gtitle" x="50" y="50" text-anchor="start" dy="0em" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 17px; fill: rgb(42, 63, 95); opacity: 1; font-weight: normal; white-space: pre;"/>
>Students Financial status</text></g><g class="annotation" data-index="0" style="opacity: 1;"/>
<g class="annotation-text-g" transform="rotate(0,269,89.5)"><g class="cursor-pointer" transform="translate(238,79)"><rect class="bg" x="0.5" y="0.5" width="62" height="20" style="stroke-width: 1px; stroke: rgb(0, 0, 0); stroke-opacity: 0; fill: rgb(0, 0, 0); fill-opacity: 0;"/>
<text class="annotation-text" text-anchor="middle" x="31.359375" y="16" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 16px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre;"/>
>No Debt</text></g></g></g><g class="annotation" data-index="1" style="opacity: 1;"/>
<g class="annotation-text-g" transform="rotate(0,731,89.5)"><g class="cursor-pointer" transform="translate(712,79)"><rect class="bg" x="0.5" y="0.5" width="37" height="20" style="stroke-width: 1px; stroke: rgb(0, 0, 0); stroke-opacity: 0; fill: rgb(0, 0, 0); fill-opacity: 0;"/>
<text class="annotation-text" text-anchor="middle" x="18.90625" y="16" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 16px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre;"/>
>Debt</text></g></g></g><g class="annotation" data-index="2" style="opacity: 1;"/>
<g class="annotation-text-g" transform="rotate(0,269,381.9666666666667)"><g class="cursor-pointer" transform="translate(225,371)"><rect class="bg" x="0.5" y="0.5" width="87" height="20" style="stroke-width: 1px; stroke: rgb(0, 0, 0); stroke-opacity: 0; fill: rgb(0, 0, 0); fill-opacity: 0;"/>
<text class="annotation-text" text-anchor="middle" x="43.953125" y="16" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 16px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre;"/>
>Tuition Paid</text></g></g></g><g class="annotation" data-index="3" style="opacity: 1;"/>
<g class="annotation-text-g" transform="rotate(0,731,381.9666666666667)"><g class="cursor-pointer" transform="translate(675,371)"><rect class="bg" x="0.5" y="0.5" width="112" height="20" style="stroke-width: 1px; stroke: rgb(0, 0, 0); stroke-opacity: 0; fill: rgb(0, 0, 0); fill-opacity: 0;"/>
<text class="annotation-text" text-anchor="middle" x="56.40625" y="16" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 16px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre;"/>
>Tuition not paid</text></g></g></g><g class="annotation" data-index="4" style="opacity: 1;"/>
<g class="annotation-text-g" transform="rotate(0,269,674.4333333333334)"><g class="cursor-pointer" transform="translate(213,664)"><rect class="bg" x="0.5" y="0.5" width="112" height="20" style="stroke-width: 1px; stroke: rgb(0, 0, 0); stroke-opacity: 0; fill: rgb(0, 0, 0); fill-opacity: 0;"/>
<text

```

class=\annotation-text\" text-anchor=\middle\" x=\56.25\" y=\16\" style=\font-
family: 'Open Sans', verdana, arial, sans-serif; font-size: 16px; fill: rgb(42, 63,
95); fill-opacity: 1; white-space: pre;\>No Scholarship</text></g></g></g><g
class=\annotation\" data-index=\5\" style=\opacity: 1;\><g class=\annotation-
text-g\" transform=\rotate(0,731,674.4333333333334)\><g class=\cursor-pointer\"
transform=\translate(687,664)\><rect class=\bg\" x=\0.5\" y=\0.5\"
width=\87\" height=\20\" style=\stroke-width: 1px; stroke: rgb(0, 0, 0); stroke-
opacity: 0; fill: rgb(0, 0, 0); fill-opacity: 0;\></g><text class=\annotation-text\"
text-anchor=\middle\" x=\43.8125\" y=\16\" style=\font-family: 'Open Sans',
verdana, arial, sans-serif; font-size: 16px; fill: rgb(42, 63, 95); fill-opacity:
1; white-space: pre;\>Scholarship</text></g></g></g></g></svg>\"

```

```

    },
    "metadata": {}
  },
  ],
  "source": [
    "# Creatign subplots for pie charts\n",
    "fig = make_subplots(rows=3, cols=2,\n",
    "    subplot_titles = ['No Debt', 'Debt', 'Tuition Paid',
    'Tuition not paid', 'No Scholarship', 'Scholarship'],\n",
    "    specs= sub_plots([{'type': 'pie'}], 3,2),
    vertical_spacing = 0.07)\n",
    "\n",
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    "make_pie(scholarship_dictionaries, traces, ['teal', 'goldenrod',
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    "fig.add_trace(traces[0], row=1, col=1)\n",
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```

```

respectively.\n",
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distributed by gender and age, as well as how certain features like courses
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we will build and train a classification model to see if our findings are
consistent with the model's results."
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correlation analysis.\n",
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        "This will help in feature selection and determine which independent
variables can be dropped or combined to avoid Multicollinearity\n",
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        "We can visualize this using heatmaps"
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        "fig.update_layout(title = 'Correlation Analysis for independent features',
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        "* Nationality and International\n",
        "* Mother's qualification and Father's qualification\n",
        "* Mother's occupation and Father's occupation\n",
        "* Curricular Units 1st sem and Curricular Units 2nd sem\n",
        "\n",
        "We can decide to pick or drop either `Nationality or International`,
`Mother's qualification or Father's qualification` and `Mother's occupation or
Father's occupation`.\n",
        "\n",
        "As for `Curricular Units 1st sem` and `Curricular Units 2nd sem` we need
to retain this information in our data set without losing valuable information or
risk the model overfitting.\n",
        "\n",
        "To solve this, Principal Component Analysis is done to reduce
dimensionality.\n"
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        "data_forPCA = data[['Curricular units 1st sem (credited)',\n",
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        "        'Curricular units 1st sem (without evaluations)',\n",
        "        'Curricular units 1st sem (approved)',\n",
        "        'Curricular units 1st sem (grade)',\n",
        "        'Curricular units 2nd sem (credited)',\n",
        "        'Curricular units 2nd sem (enrolled)',\n",
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        "        'Curricular units 2nd sem (grade)']]\n",
        "\n",
        "\n",
        "# PCA with one component\n",
        "pca = PCA(n_components=1)\n",
        "\n",
        "# Fit PCA to data and transform it\n",
        "pca_result = pca.fit_transform(data_forPCA)\n"
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```

```

        "\n",
        "# Create a new DataFrame with the reduced feature\n",
        "df_pca = pd.DataFrame(data=pca_result, columns=['PCA Feature']).squeeze()\n",
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        "data['Curricular 1st and 2nd sem PCA'] = df_pca"
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        "* Curricular units 1st sem (enrolled)\n",
        "* Curricular units 1st sem (credited)\n",
        "* Curricular units 1st sem (evaluations)\n",
        "* Curricular units 1st sem (approved)\n",
        "* Curricular units 1st sem (grade)\n",
        "* Curricular units 1st sem (without evaluations)\n",
        "* Curricular units 2nd sem (credited)\n",
        "* Curricular units 2nd sem (enrolled)\n",
        "* Curricular units 2nd sem (evaluations)\n",
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        "            'Curricular units 1st sem (evaluations)',\n",
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        "            'Curricular units 1st sem (approved)',\n",
        "            'Curricular units 1st sem (grade)',\n",
        "            'Curricular units 2nd sem (credited)',\n",
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"        google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"\n",
"      async function convertToInteractive(key) {\n",
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"        const dataTable =\n",
"          await\n",
"          google.colab.kernel.invokeFunction('convertToInteractive',\n",
"            [key], {});\n",
"        if (!dataTable) return;\n",
"\n",
"        const docLinkHtml = 'Like what you see? Visit the ' +\n",
"          '<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",
"\n",
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"    async function quickchart(key) {\n",
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"        document.querySelector('#' + key + ' button');\n",
"      quickchartButtonEl.disabled = true; // To prevent multiple
clicks.\n",
"      quickchartButtonEl.classList.add('colab-df-spinner');\n",
"      try {\n",
"        const charts = await google.colab.kernel.invokeFunction(\n",
"          'suggestCharts', [key], {});\n",
"      } catch (error) {\n",
"        console.error('Error during call to suggestCharts:',
error);\n",
"      }\n",
"      quickchartButtonEl.classList.remove('colab-df-spinner');\n",
"      quickchartButtonEl.classList.add('colab-df-quickchart-
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"    (() => {\n",
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"#Drop all columns except that for Dropout\n",
"dummies.drop(['Enrolled',\t'Graduate'], axis = 1, inplace= True)\n",
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"\n",
"Daytime/evening attendance    Previous qualification    Mother's qualification    \\\n",
"0                1                1\n",
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"3                1                1

```

```

23  \n",
22  \n",
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    "\n",
    "    Father's occupation    Displaced    Educational special needs    Debtor
\\n",
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    4
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"    [theme=dark] .colab-df-convert {\n",
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"      fill: #D2E3FC;\n",
"    }\n",
"\n",
"    [theme=dark] .colab-df-convert:hover {\n",
"      background-color: #434B5C;\n",

```

```

"      box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",
"      filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\n",
"      fill: #FFFFFF;\n",
"    }\n",
"  </style>\n",
"\n",
"  <script>\n",
"    const buttonEl =\n",
"      document.querySelector('#df-64e02889-9a84-47f6-9739-304e69374381 button.colab-df-convert');\n",
"    buttonEl.style.display =\n",
"      google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"\n",
"    async function convertToInteractive(key) {\n",
"      const element = document.querySelector('#df-64e02889-9a84-47f6-9739-304e69374381');\n",
"      const dataTable =\n",
"        await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
"                                     [key], {});\n",
"      if (!dataTable) return;\n",
"\n",
"      const docLinkHtml = 'Like what you see? Visit the ' +\n",
"        '<a target=\"_blank\"'\n",
href=https://colab.research.google.com/notebooks/data_table.ipynb>data table\n",
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",
n",
"      const docLink = document.createElement('div');\n",
"      docLink.innerHTML = docLinkHtml;\n",
"      element.appendChild(docLink);\n",
"    }\n",
"  </script>\n",
" </div>\n",
"\n",
"<div id=\"df-9742cf3d-43bf-476d-8a14-e6887c4d817c\">\n",
"  <button class=\"colab-df-quickchart\" onclick=\"quickchart('df-9742cf3d-43bf-476d-8a14-e6887c4d817c')\">\n",
"    title=\"Suggest charts\"\n",
"    style=\"display:none;\n",
"\n",
"<svg xmlns=\"http://www.w3.org/2000/svg\" height=\"24px\"viewBox=\"0
0 24 24\">\n",
"  width=\"24px\">\n",
"    <g>\n",
"      <path d=\"M19 3H5c-1.1 0-2 .9-2 2v14c0 1.1.9 2 2 2h14c1.1 0 2-.9 2-2v5c0-1.1-.9-2-.9-2-2-2-2zm9 17h7v-7h2v7zm4 0h-2v7h2v10zm4 0h-2v-4h2v4z\"/>\n",
"    </g>\n",
"  </svg>\n",
"  </button>\n",
"\n",
"  <style>\n",
"    .colab-df-quickchart {\n",
"      --bg-color: #E8F0FE;\n",
"      --fill-color: #1967D2;\n",

```

```

"      --hover-bg-color: #E2EBFA;\n",
"      --hover-fill-color: #174EA6;\n",
"      --disabled-fill-color: #AAA;\n",
"      --disabled-bg-color: #DDD;\n",
"    }\n",
"\n",
"    [theme=dark] .colab-df-quickchart {\n",
"      --bg-color: #3B4455;\n",
"      --fill-color: #D2E3FC;\n",
"      --hover-bg-color: #434B5C;\n",
"      --hover-fill-color: #FFFFFF;\n",
"      --disabled-bg-color: #3B4455;\n",
"      --disabled-fill-color: #666;\n",
"    }\n",
"\n",
"    .colab-df-quickchart {\n",
"      background-color: var(--bg-color);\n",
"      border: none;\n",
"      border-radius: 50%;\n",
"      cursor: pointer;\n",
"      display: none;\n",
"      fill: var(--fill-color);\n",
"      height: 32px;\n",
"      padding: 0;\n",
"      width: 32px;\n",
"    }\n",
"\n",
"    .colab-df-quickchart:hover {\n",
"      background-color: var(--hover-bg-color);\n",
"      box-shadow: 0 1px 2px rgba(60, 64, 67, 0.3), 0 1px 3px 1px\n",
"      rgba(60, 64, 67, 0.15);\n",
"      fill: var(--button-hover-fill-color);\n",
"    }\n",
"\n",
"    .colab-df-quickchart-complete:disabled,\n",
"    .colab-df-quickchart-complete:disabled:hover {\n",
"      background-color: var(--disabled-bg-color);\n",
"      fill: var(--disabled-fill-color);\n",
"      box-shadow: none;\n",
"    }\n",
"\n",
"    .colab-df-spinner {\n",
"      border: 2px solid var(--fill-color);\n",
"      border-color: transparent;\n",
"      border-bottom-color: var(--fill-color);\n",
"      animation:\n",
"        spin 1s steps(1) infinite;\n",
"    }\n",
"\n",
"    @keyframes spin {\n",
"      0% {\n",
"        border-color: transparent;\n",
"        border-bottom-color: var(--fill-color);\n",
"        border-left-color: var(--fill-color);\n",
"      }\n",
"      20% {\n",
"        border-color: transparent;\n",
"        border-left-color: var(--fill-color);\n",
"        border-top-color: var(--fill-color);\n",

```

```

"    }\n",
"    30% {\n",
"        border-color: transparent;\n",
"        border-left-color: var(--fill-color);\n",
"        border-top-color: var(--fill-color);\n",
"        border-right-color: var(--fill-color);\n",
"    }\n",
"    40% {\n",
"        border-color: transparent;\n",
"        border-right-color: var(--fill-color);\n",
"        border-top-color: var(--fill-color);\n",
"    }\n",
"    60% {\n",
"        border-color: transparent;\n",
"        border-right-color: var(--fill-color);\n",
"    }\n",
"    80% {\n",
"        border-color: transparent;\n",
"        border-right-color: var(--fill-color);\n",
"        border-bottom-color: var(--fill-color);\n",
"    }\n",
"    90% {\n",
"        border-color: transparent;\n",
"        border-bottom-color: var(--fill-color);\n",
"    }\n",
"  }\n",
"</style>\n",
"\n",
"  <script>\n",
"    async function quickchart(key) {\n",
"      const quickchartButtonEl =\n",
"        document.querySelector('#' + key + ' button');\n",
"      quickchartButtonEl.disabled = true; // To prevent multiple
clicks.\n",
"      quickchartButtonEl.classList.add('colab-df-spinner');\n",
"      try {\n",
"        const charts = await google.colab.kernel.invokeFunction(\n",
"          'suggestCharts', [key], {});\n",
"      } catch (error) {\n",
"        console.error('Error during call to suggestCharts:',
error);\n",
"      }\n",
"      quickchartButtonEl.classList.remove('colab-df-spinner');\n",
"      quickchartButtonEl.classList.add('colab-df-quickchart-
complete');\n",
"    }\n",
"    (() => {\n",
"      let quickchartButtonEl =\n",
"        document.querySelector('#df-9742cf3d-43bf-476d-8a14-
e6887c4d817c button');\n",
"      quickchartButtonEl.style.display =\n",
"        google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"    })();\n",
"  </script>\n",
"</div>\n",
"  </div>\n",
" </div>\n"
]
},

```

```

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        "execution_count": 89
    }
],
"source": [
    "# Assigning x and y features\n",
    "y = np.array(data['Target'])\n",
    "X_features = data.drop('Target', axis = 1)\n",
    "X_features.head()"
]
},
{
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    "execution_count": null,
    "metadata": {
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        },
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        "outputId": "4613ef37-2d24-482f-d699-8208f039ac48"
    },
    "outputs": [
        {
            "output_type": "execute_result",
            "data": {
                "text/plain": [
                    "array([1, 0, 1, 0, 0], dtype=uint8)"
                ]
            },
            "metadata": {},
            "execution_count": 90
        }
    ],
    "source": [
        "y[:5]"
    ]
},
{
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    },
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            "data": {
                "text/plain": [
                    "array([[ -0.29482875,  0.21006857,  2.49089589, ..., -0.43036282,\n",
                    "        -0.15968211, -2.42563525],\n",
                    "       [ -0.29482875, -0.16740639, -0.55406775, ..., -0.56216796,\n",
                    "        -0.15968211,  0.28887762],\n",
                    "       [ -0.29482875, -1.11109377,  2.49089589, ..., -0.56216796,\n",
                    "        -0.15968211, -2.16256376],\n",
                    "       ..., \n",

```

```

        "        [-0.29482875, -1.11109377, -0.55406775, ..., 0.8876885 ,\n",
        "        -0.15968211, 0.45198555],\n",
        "        [-0.29482875, -1.11109377, -0.55406775, ..., -0.43036282,\n",
        "        -0.15968211, 0.02764264],\n",
        "        [-0.29482875, -0.35614386, -0.55406775, ..., -0.16675256,\n",
        "        6.26244216, 0.19929284]])"
    ]
    },
    "metadata": {},
    "execution_count": 91
}
],
"source": [
    "# Normalizing data\n",
    "scaler = StandardScaler()\n",
    "X = scaler.fit_transform(X_features)\n",
    "X\n"
]
},
{
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    },
    "source": [
        "## Model Building\n",
        "\n",
        "Because the target variable is categorical (either Dropout or not), this  

is a classification problem.\n",
        "We will train five supervised machine learning classification models:\n",
        "\n",
        "* Logistic regression\n",
        "* Decision trees\n",
        "* Support vector machines\n",
        "* Random forest\n",
        "* K-nearest neighbors\n",
        "\n",
        "First, we will split our data into training, validation, and test sets. We  

will set the random state to 42 to ensure reproducibility."
    ]
},
{
    "cell_type": "markdown",
    "source": [
        "### Splitting Training and Test set"
    ],
    "metadata": {
        "id": "uy015igog41X"
    }
},
{
    "cell_type": "code",
    "execution_count": null,
    "metadata": {
        "id": "YsSBw4uAAIdY"
    },
    "outputs": [],
    "source": [
        "# Split data into training and testing sets\n",

```



```

        "X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2,
random_state=42)"
    ],
    },
    {
        "cell_type": "markdown",
        "source": [
            "#### Creating validation set"
        ],
        "metadata": {
            "id": "wLPj0SrJNDk9"
        }
    },
    {
        {
            "cell_type": "code",
            "source": [
                "# Split data into training and validation sets\n",
                "X_train, X_val, y_train, y_val = train_test_split(X_train, y_train,
test_size=0.2, random_state=42)"
            ],
            "metadata": {
                "id": "a2aie8KNGv_"
            },
            "execution_count": null,
            "outputs": []
        },
        {
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            "source": [
                "#### Baseline Model Accuracy"
            ],
            "metadata": {
                "id": "20VCmpo4MqLa"
            }
        },
        {
            "cell_type": "code",
            "source": [
                "# Calculate the baseline accuracy to beat\n",
                "target_value, frequency = np.unique(y, return_counts = True)\n",
                "print(\"Unique Values:\", target_value)\n",
                "\n",
                "print(\"Frequency Values:\", frequency)\n",
                "\n",
                "# Maximum frequency value\n",
                "max_val = frequency.max()\n",
                "length_y = len(y)\n",
                "\n",
                "print('\\n')\n",
                "\n",
                "baseline_acc = round((max_val/length_y) * 100, 3)\n",
                "print(f'The baseline accuracy to beat is {baseline_acc}%')\n",
                "\n"
            ],
            "metadata": {
                "colab": {
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                },
                "id": "uF5AJigIl3gg",
            },
        },
    },

```

```

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    },
    "execution_count": null,
    "outputs": [
        {
            "output_type": "stream",
            "name": "stdout",
            "text": [
                "Unique Values: [0 1]\n",
                "Frequency Values: [3003 1421]\n",
                "\n",
                "\n",
                "The baseline accuracy to beat is 67.88%\n"
            ]
        }
    ]
},
{
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        "A list is created to store all the trained models with the best
hyperparameters"
    ],
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    }
},
{
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        "# List of all trained models\n",
        "\n",
        "trained_models = []"
    ],
    "metadata": {
        "id": "elzy9F4qJBgY"
    },
    "execution_count": null,
    "outputs": []
},
{
    "cell_type": "markdown",
    "metadata": {
        "id": "u6DTgQ_b40bR"
    },
    "source": [
        "### Logistic Regression"
    ]
},
{
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    "execution_count": null,
    "metadata": {
        "colab": {
            "base_uri": "https://localhost:8080/"
        },
        "id": "AqRA4CluAIdh",
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    },
    "source": [

```

```

"outputs": [
  {
    "output_type": "stream",
    "name": "stdout",
    "text": [
      "Accuracy of logistic regression model on the training set is 83.2%\n",
      "Accuracy of logistic regression model on the validation set is 84.3%\n",
      "\n",
      "\n",
      "Accuracy of logistic regression model on the test set is 81.0%\n"
    ]
  }
],
"source": [
  "# Train a logistic regression model\n",
  "lr_model = LogisticRegression(random_state = 42, max_iter= 1000)\n",
  "lr_model.fit(X_train, y_train)\n",
  "\n",
  "\n",
  "# Predict target values for train data\n",
  "y_pred_train = lr_model.predict(X_train)\n",
  "\n",
  "# Predict target values for validation data\n",
  "y_pred_val = lr_model.predict(X_val)\n",
  "\n",
  "# Predict target values for test data\n",
  "y_pred = lr_model.predict(X_test)\n",
  "\n",
  "# Evaluate the model's accuracy\n",
  "lr_acc_train = round(accuracy_score(y_train, y_pred_train), 3)\n",
  "lr_acc_val = round(accuracy_score(y_val, y_pred_val), 3)\n",
  "lr_acc = round(accuracy_score(y_test, y_pred), 2)\n",
  "print(f'Accuracy of logistic regression model on the training set is\n",
  {lr_acc_train * 100}%')\n",
  "print(f'Accuracy of logistic regression model on the validation set is\n",
  {lr_acc_val * 100}%')\n",
  "print('\\n')\n",
  "print(f'Accuracy of logistic regression model on the test set is {lr_acc *\n",
  100}%')\n",
  "\n",
  "# Add to model list\n",
  "trained_models.append(lr_model)\n"
]
},
{
  "cell_type": "markdown",
  "metadata": {
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  },
  "source": [
    "#### Decision Trees"
  ]
},
{
  "cell_type": "code",
  "source": [
    "# List for possible depth value\n",
    "depth_values = list(range(1, 21))\n"
  ]
}

```

```

"\n",
"# Create empty list for training data and validation data\n",
"training_acc = []\n",
"validation_acc = []\n",
"\n",
"for d in tqdm(depth_values):\n",
"    tree_model = DecisionTreeClassifier(max_depth=d, random_state=42)\n",
"    tree_model.fit(X_train, y_train)\n",
"\n",
"    # Training accuracy\n",
"    y_pred_training = tree_model.predict(X_train)\n",
"    training_acc.append(accuracy_score(y_train, y_pred_training))\n",
"\n",
"    # Validation accuracy\n",
"    y_pred_validation = tree_model.predict(X_val)\n",
"    validation_acc.append(accuracy_score(y_val, y_pred_validation))\n",
],
"metadata": {
    "id": "I0CKmM4lM9p4",
    "colab": {
        "base_uri": "https://localhost:8080/"
    },
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},
"execution_count": null,
"outputs": [
    {
        "output_type": "stream",
        "name": "stderr",
        "text": [
            "100%|██████████| 20/20 [00:00<00:00, 66.82it/s]\n"
        ]
    }
]
},
{
    "cell_type": "code",
    "source": [
        "# Plotting learning curve\n",
        "plt.plot(training_acc, label = 'Training Accuracy')\n",
        "plt.plot(validation_acc, label = 'Validation Accuracy')\n",
        "plt.xlabel('Depth Values')\n",
        "plt.ylabel('Accuracy Score')\n",
        "plt.title('Learning curve')\n",
        "plt.legend();"
    ],
    "metadata": {
        "id": "GsbwKECZM9mU",
        "colab": {
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            "height": 472
        },
        "outputId": "b0965710-c833-420c-cf7b-bc93d6637414"
    },
    "execution_count": null,
    "outputs": [
        {
            "output_type": "display_data",
            "data": {

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    "print(f'Best depth value with an accuracy of {round(best_val_acc * 100,  

    2)}% on the validation set is {best_depth}')\n"
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```



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        "tree_model.fit(X_train, y_train)\n",
        "\n",
        "# Predict target values for test data\n",
        "y_pred = tree_model.predict(X_test)\n",
        "\n",
        "# Evaluate the model's accuracy\n",
        "tree_acc = round(accuracy_score(y_test, y_pred), 3)\n",
        "print(f'Accuracy of Decision tree model is {tree_acc * 100}%')\n",
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    "scores = 0\n",
    "svm_linear = []\n",
    "\n",
    "for k in tqdm(kernels):\n",
    "    svm_model = SVC(random_state = 42, kernel= k)\n",
    "    svm_model.fit(X_train, y_train)\n",
    "    if k == 'linear':\n",
    "        svm_linear.append(svm_model)\n",
    "    f_score = svm_model.score(X_val, y_val)\n",
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```

[illegible]

```

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  "svm_model = SVC(random_state = 42, kernel = k)\n",
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  "\n",
  "# Predict target values for test data\n",
  "y_pred = svm_model.predict(X_test)\n",
  "\n",
  "# Evaluate the model's accuracy\n",
  "svm_acc = round(accuracy_score(y_test, y_pred),3)\n",
  "print(f'Accuracy of Support vector classifier model is {svm_acc * 100}%')\n",
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```

```

    }
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    "rf_model = RandomForestClassifier(random_state=42)\n",
    "rf_model.fit(X_train, y_train)\n",
    "\n",
    "# Predict target values for training data\n",
    "y_pred_train = rf_model.predict(X_train)\n",
    "rf_acc_train = round(accuracy_score(y_train, y_pred_train), 3)\n",
    "\n",
    "# Predict target values for validation data\n",
    "y_pred_val = rf_model.predict(X_val)\n",
    "rf_acc_val = round(accuracy_score(y_val, y_pred_val), 3)\n",
    "\n",
    "print('With default parameters: ')\n",
    "print(f'Accuracy of Random forest model on training data is {rf_acc_train\n",
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* 100}%')\n"
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        "    'max_depth': [3, 6, 9],\n",
        "    'max_leaf_nodes': [3, 6, 9],\n",
        "}\n",
        "\n",
        "grid_search = GridSearchCV(RandomForestClassifier(random_state=42),\n",
        "                             param_grid=param_grid, cv = 5)\n",
        "\n",
        "# Fit Grid\n",
        "grid_search.fit(X_train, y_train)\n",
        "best_rf_parameters = grid_search.best_params_\n",
        "print(f'Grid search parameters: {best_rf_parameters}')\n",
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    "                                     max_leaf_nodes =
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    "                                     n_estimators =
best_rf_parameters['n_estimators'],\n",
    "                                     max_features =
best_rf_parameters['max_features'])\n",
    "grid_rf_model.fit(X_train, y_train)\n",
    "\n",
    "# Predict target values for training data\n",
    "y_pred_train = grid_rf_model.predict(X_train)\n",
    "rf_acc_train = round(accuracy_score(y_train, y_pred_train), 3)\n",
    "\n",
    "# Predict target values for validation data\n",
    "y_pred_val = grid_rf_model.predict(X_val)\n",
    "rf_acc_val = round(accuracy_score(y_val, y_pred_val), 3)\n",
    "\n",
    "print('With Grid search best estimator parameters: ')\n",
    "print(f'Accuracy of Random forest model on training data is {rf_acc_train
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    "print(f'Accuracy of Random forest model on validation data is {rf_acc_val
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```

```

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    "print(f'Accuracy of Random forest model on test data is {rf_acc * 100}%')\n",
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    "grid_knn = GridSearchCV(KNeighborsClassifier(), param_grid, cv=5)\n",
    "\n",
    "# Fit grid\n",
    "grid_knn.fit(X_train, y_train)\n",
    "best_knn_parameters = grid_knn.best_params_\n",
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        "grid_knn_model.fit(X_train, y_train)\n",
        "# Predict target values for training data\n",
        "y_pred_train = grid_knn_model.predict(X_train)\n",
        "knn_acc_train = round(accuracy_score(y_train, y_pred_train), 3)\n",
        "\n",
        "# Predict target values for validation data\n",
        "y_pred_val = grid_knn_model.predict(X_val)\n",
        "knn_acc_val = round(accuracy_score(y_val, y_pred_val), 3)\n",
        "\n",
        "print('With Grid search best estimator parameters: ')\n",
        "print(f'Accuracy of KNN model on training data is {knn_acc_train * \n",
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      "    knn_model = KNeighborsClassifier(n_neighbors=i)\n",
      "    # Fit model\n",
      "    knn_model.fit(X_train, y_train)\n",
      "\n",
      "    # Prediction for training data\n",
      "    y_pred_train = knn_model.predict(X_train)\n",
      "    # Prediction for validation data\n",
      "    y_pred_val = knn_model.predict(X_val)\n",
      "\n",
      "    # Accuracy Scores\n",
      "    train_accuracy.append(accuracy_score(y_train, y_pred_train))\n",
      "    val_accuracy.append(accuracy_score(y_val, y_pred_val))"
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      "plt.ylabel('Accuracy Score')\n",
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 $\text{>0.832</text></g></g></g></g></g><g class="overplot"><path class="xlines-above crisp" d="M0,0" style="fill: none;}/><path class="ylines-above crisp" d="M0,0" style="fill: none;}/><g class="overlines-above"><g class="xaxislayer-above"><g class="xtick"><math>\text{text text-anchor="middle" x="0" y="333" transform="translate(143,0)" style="font-family: 'Open Sans', verdana, arial, sans-serif; font-size: 12px; fill: rgb(42, 63, 95); fill-opacity: 1; white-space: pre; opacity: 1;}>0</text></g>xtick
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[illegible]

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