References

* <https://matplotlib.org/3.1.0/api/_as_gen/matplotlib.pyplot.bar.html>
* <https://matplotlib.org/3.1.0/gallery/lines_bars_and_markers/barchart.html#sphx-glr-gallery-lines-bars-and-markers-barchart-py>
* <https://matplotlib.org/3.1.1/api/_as_gen/matplotlib.pyplot.boxplot.html>
* <https://matplotlib.org/3.1.1/gallery/pyplots/boxplot_demo_pyplot.html#sphx-glr-gallery-pyplots-boxplot-demo-pyplot-py>
* <https://www.tutorialspoint.com/matplotlib/index.htm>
* <https://stackoverflow.com/questions/18689823/pandas-dataframe-replace-nan-values-with-average-of-columns>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.fillna.html>
* <https://www.freecodecamp.org/news/the-penalty-of-missing-values-in-data-science-91b756f95a32/>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.dropna.html>
* <https://datatofish.com/dropna/#:~:text=Step%202%3A%20Drop%20the%20Rows,dropna().&text=You%20may%20have%20noticed%20that,longer%20have%20a%20sequential%20index>
* <https://medium.com/analytics-vidhya/feature-engineering-part-1-mean-median-imputation-761043b95379#:~:text=Replacing%20missing%20data%20by%20the,the%20values%20in%20the%20variable>
* <https://stats.stackexchange.com/questions/143700/which-is-better-replacement-by-mean-and-replacement-by-median>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.Series.str.contains.html>
* <https://towardsdatascience.com/ways-to-handle-categorical-data-before-train-ml-models-with-implementation-ffc213dc84ec>
* <https://pbpython.com/categorical-encoding.html>
* <https://medium.com/analytics-vidhya/missing-data-its-types-9f59e897843f>
* <https://medium.com/swlh/ways-to-handle-continous-column-missing-data-its-implementations-4704f52ac9c3>
* <https://medium.com/analytics-vidhya/ways-to-handle-categorical-column-missing-data-its-implementations-15dc4a56893>
* <https://www.analyticsvidhya.com/blog/2020/08/types-of-categorical-data-encoding/>
* <https://machinelearningmastery.com/how-to-prepare-categorical-data-for-deep-learning-in-python/>
* <https://towardsdatascience.com/all-about-categorical-variable-encoding-305f3361fd02>
* <https://towardsdatascience.com/categorical-encoding-techniques-93ebd18e1f24>
* <https://medium.com/analytics-vidhya/types-of-categorical-data-encoding-schemes-a5bbeb4ba02b>
* <https://stackoverflow.com/questions/30944577/check-if-string-is-in-a-pandas-dataframe>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.Series.str.contains.html>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.Series.str.startswith.html#pandas.Series.str.startswith>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.replace.html>
* <https://scikit-learn.org/stable/modules/neural_networks_supervised.html>
* <https://www.kdnuggets.com/2016/10/beginners-guide-neural-networks-python-scikit-learn.html>
* <https://stackabuse.com/introduction-to-neural-networks-with-scikit-learn/>
* <https://scikit-learn.org/stable/modules/generated/sklearn.neural_network.MLPClassifier.html>
* <https://scikit-learn.org/stable/auto_examples/classification/plot_classifier_comparison.html#sphx-glr-auto-examples-classification-plot-classifier-comparison-py>
* <https://scikit-learn.org/stable/auto_examples/neural_networks/plot_mnist_filters.html#sphx-glr-auto-examples-neural-networks-plot-mnist-filters-py>
* <https://scikit-learn.org/stable/modules/model_evaluation.html>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.fillna.html>
* <https://pandas.pydata.org/docs/reference/api/pandas.Series.str.html>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.get_dummies.html>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.loc.html>
* <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.insert.html>
* <https://pbpython.com/categorical-encoding.html>
* <https://towardsdatascience.com/ways-to-handle-categorical-data-before-train-ml-models-with-implementation-ffc213dc84ec>
* <https://pandas.pydata.org/pandas-docs/stable/user_guide/categorical.html>
* <https://machinelearningmastery.com/how-to-configure-the-number-of-layers-and-nodes-in-a-neural-network/>
* <https://towardsdatascience.com/beginners-ask-how-many-hidden-layers-neurons-to-use-in-artificial-neural-networks-51466afa0d3e>
* <https://www.pluralsight.com/guides/machine-learning-neural-networks-scikit-learn>