**LightGBM**, short for **Light Gradient Boosting Machine**, is an open-source distributed gradient boosting framework for machine learning. [It is based on decision tree algorithms and is used for ranking, classification, and other machine learning tasks1](https://en.wikipedia.org/wiki/LightGBM).

Here are **five reference links** where you can learn more about LightGBM:

1. [**LightGBM Documentation**](https://lightgbm.readthedocs.io/): The official documentation provides detailed information on installation, usage, and features[2](https://lightgbm.readthedocs.io/en/latest/index.html).
2. [**Machine Learning Mastery Tutorial**](https://machinelearningmastery.com/light-gradient-boosted-machine-lightgbm-ensemble/): This tutorial covers how to develop LightGBM ensembles for classification and regression using the scikit-learn API[3](https://machinelearningmastery.com/light-gradient-boosted-machine-lightgbm-ensemble/).
3. [**Analytics Vidhya Guide**](https://www.analyticsvidhya.com/blog/2021/08/complete-guide-on-how-to-use-lightgbm-in-python/): Explore LightGBM in Python, including its features, algorithms, and practical examples[4](https://www.analyticsvidhya.com/blog/2021/08/complete-guide-on-how-to-use-lightgbm-in-python/).
4. [**LightGBM GitHub Repository**](https://github.com/microsoft/LightGBM): The official GitHub repository contains the source code, releases, and additional resources[5](https://github.com/microsoft/LightGBM).
5. [**LightGBM Quick Start**](https://lightgbm.readthedocs.io/en/latest/Quick-Start.html): Get started quickly with LightGBM using command line examples and explore its parameters[6](https://lightgbm.readthedocs.io/en/latest/Quick-Start.html).

Happy learning! 🌟