



Explore

**XGBoost** (eXtreme Gradient Boosting) is an **open-source software library** that provides a **regularizing gradient boosting framework** for C++, Java, Python, R, Julia, Perl, and Scala. It is designed to be highly efficient, flexible, and portable, implementing machine learning algorithms under the Gradient Boosting framework. [XGBoost offers parallel tree boosting (also known as GBDT, GBM) that efficiently solves many data science problems with speed and accuracy1](https://xgboost.readthedocs.io/)[2](https://en.wikipedia.org/wiki/XGBoost).

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

1. [**XGBoost Documentation**](https://xgboost.readthedocs.io/): The official documentation provides detailed information on installation, usage, and tutorials[1](https://xgboost.readthedocs.io/).
2. [**XGBoost on Wikipedia**](https://en.wikipedia.org/wiki/XGBoost): This Wikipedia page covers the basics of XGBoost and its compatibility with various programming languages[2](https://en.wikipedia.org/wiki/XGBoost).
3. [**A Gentle Introduction to XGBoost for Applied Machine Learning**](https://machinelearningmastery.com/gentle-introduction-xgboost-applied-machine-learning/): A beginner-friendly guide that explains XGBoost and how to use it in practical machine learning scenarios[3](https://machinelearningmastery.com/gentle-introduction-xgboost-applied-machine-learning/).
4. [**XGBoost Tutorials**](https://xgboost.readthedocs.io/): Dive into tutorials covering topics like boosted trees, model I/O, and more[1](https://xgboost.readthedocs.io/).
5. **XGBoost GitHub Repository**: Explore the source code, contribute, and learn from the community-driven development of XGBoost.

Happy learning! 🌟🚀