# Python time series tools

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**Abstract:** *A time series is a series of data related to a period of time. Time series analysis is often used to predict future values of a particular phenomenon, using models that have proven successful in predicting time series in the past. This analysis is often used in various industries, such as finance, meteorology and others, in order to obtain information about future trends and possible changes. The number of computer-aided forecasting tools is growing every day. These tools use artificial intelligence, that is, machine learning, to reach certain and as precise results as possible. Most of these tools are free and open source, which means anyone can see how certain functions work. Time series are often displayed graphically, to help track changes. Some of the most popular time series tools in the python programming language are Pandas, Tensorflow, Scikit-learn, Numpy, Matplotlib.*

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