

```
In [1]: 1 import wikipedia
```

```
In [2]: 1 result= wikipedia.page("MachineLearning")
2 final_result = result.content
3 print(final_result)
```

Machine learning (ML) is the study of computer algorithms that improve automatically through experience and by the use of data. It is seen as a part of artificial intelligence. Machine learning algorithms build a model based on sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to do so. Machine learning algorithms are used in a wide variety of applications, such as in medicine, email filtering, speech recognition, and computer vision, where it is difficult or unfeasible to develop conventional algorithms to perform the needed tasks. A subset of machine learning is closely related to computational statistics, which focuses on making predictions using computers; but not all machine learning is statistical learning. The study of mathematical optimization delivers methods, theory and application domains to the field of machine learning. Data mining is a related field of study, focusing on exploratory data analysis through unsupervised learning. In its application across business problems, machine learning is also referred to as predictive analytics.

== Overview ==

Machine learning involves computers discovering how they can perform tasks without being explicitly programmed to do so. It involves computers learning from data provided so that they carry out certain tasks. For simple tasks assigned to computers, it is possible to program algorithms telling the machine how to execute all steps required to solve the problem at hand; on the computer's part, no learning is needed. For more advanced tasks, it can be challenging for a human to manually create the needed algorithms. In practice, it can turn

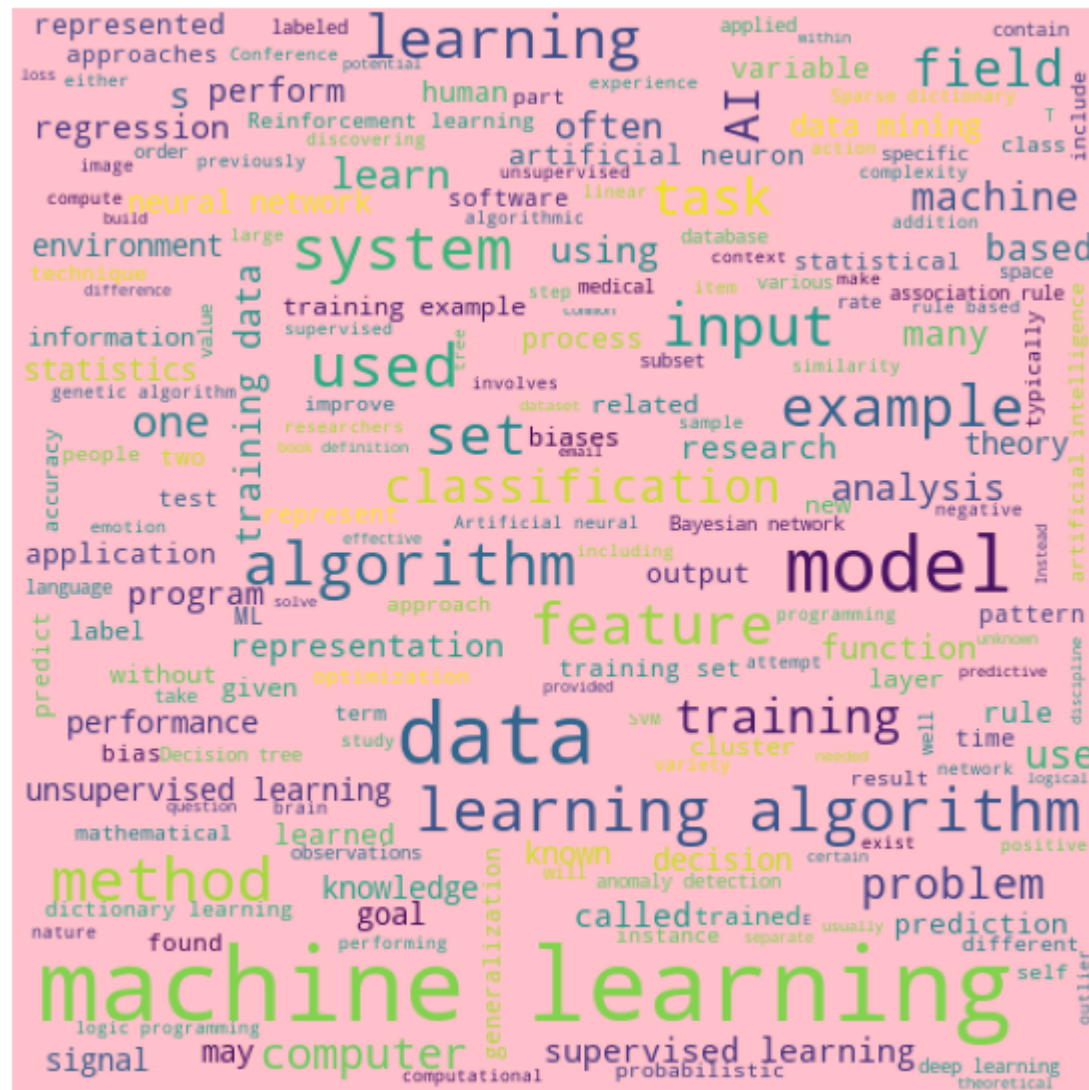
```
In [3]: 1 result= wikipedia.summary("MachineLearning", sentences=5)
2 print(result)
```

Machine learning (ML) is the study of computer algorithms that improve automatically through experience and by the use of data. It is seen as a part of artificial intelligence. Machine learning algorithms build a model based on sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to do so. Machine learning algorithms are used in a wide variety of applications, such as in medicine, email filtering, speech recognition, and computer vision, where it is difficult or unfeasible to develop conventional algorithms to perform the needed tasks. A subset of machine learning is closely related to computational statistics, which focuses on making predictions using computers; but not all machine learning is statistical learning. The study of mathematical optimization delivers methods, theory and application domains to the field of machine learning.

In [4]: 1 `from wordcloud import WordCloud, STOPWORDS`

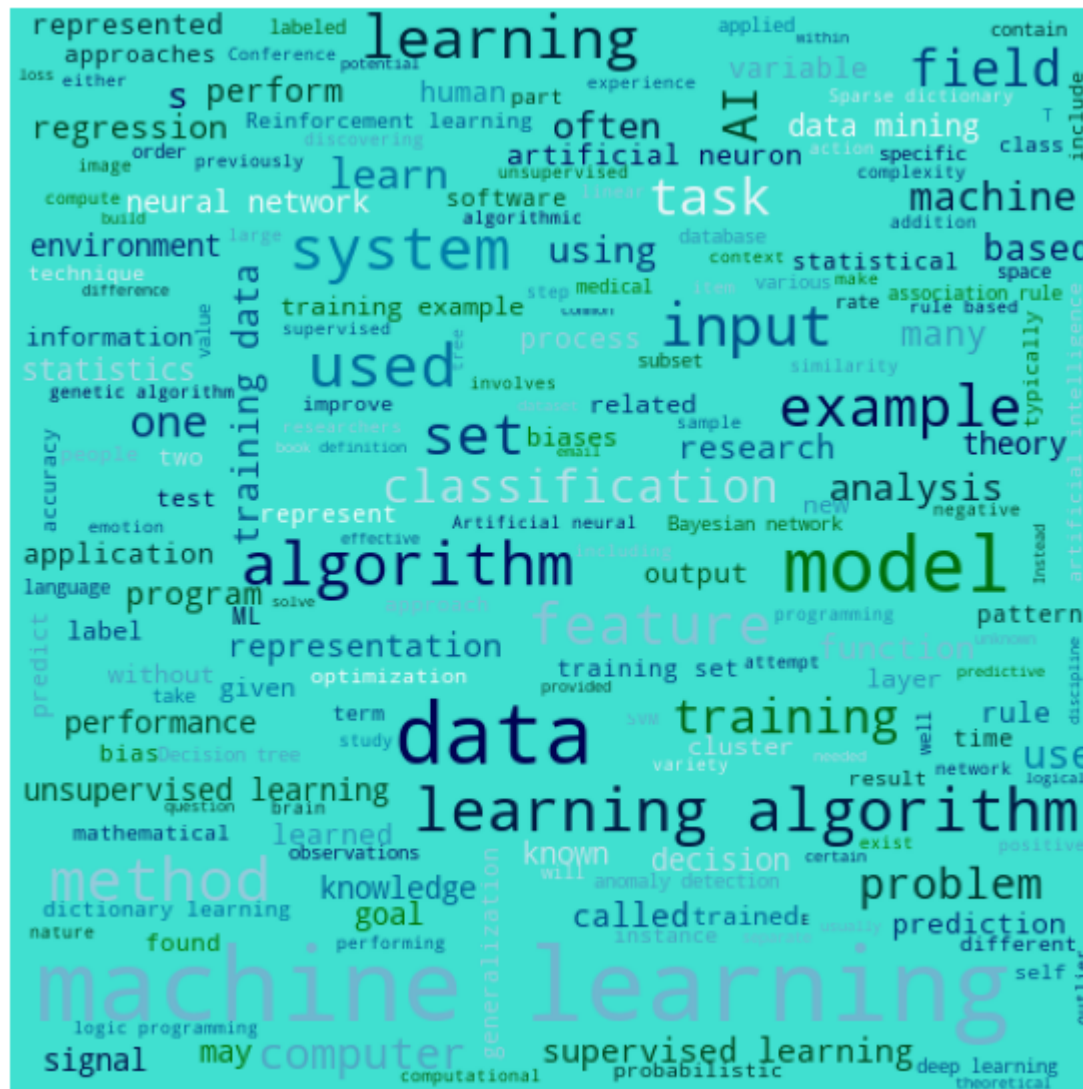
In [5]:

```
1 import matplotlib.pyplot as plt
2 def plot_cloud(wordcloud):
3     plt.figure(figsize=(10, 10))
4     plt.imshow(wordcloud)
5     plt.axis("off");
6 wordcloud = WordCloud(width = 500, height = 500, background_color='pink', random_state=10).generate(final_re
7 plot_cloud(wordcloud)
```



In [6]:

```
1 import matplotlib.pyplot as plt
2 def plot_cloud(wordcloud):
3     plt.figure(figsize=(10, 10))
4     plt.imshow(wordcloud)
5     plt.axis("off");
6 wordcloud = WordCloud(width = 500, height = 500, background_color='#40E0D0', colormap="ocean", random_state=
7 plot_cloud(wordcloud)
```



In []:

1

In []:

1