

Intro to Machine Learning in PHP



Hello

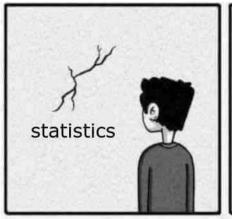
I am Jay Rodge

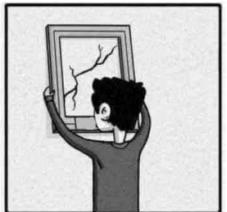
Machine Learning Fellow, fellowship.ai

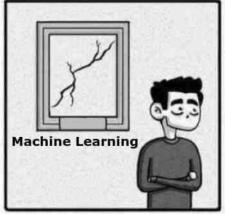
Graduate Student, Illinois Tech

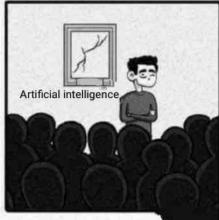
LinkedIn: /in/jayrodge

What is Machine Learning?









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Machine Learning

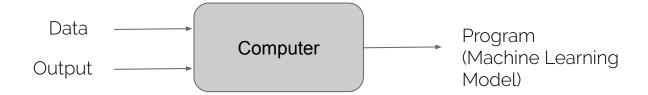
Getting computers to program themselves

- Writing software is the bottleneck!
- Let the data do the work instead!
- Open Source

Traditional Programming



Machine Learning



Applications



IRIS dataset

Problem



Iris Versicolor

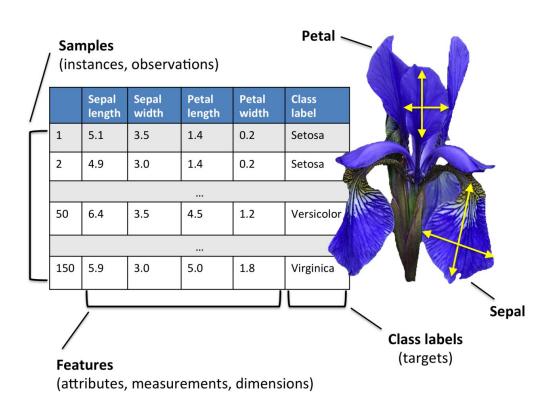


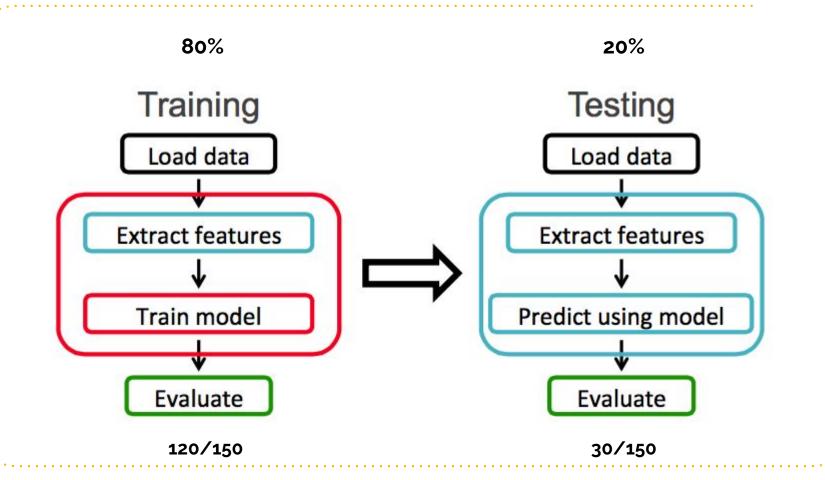
Iris Virginica



Iris Setosa

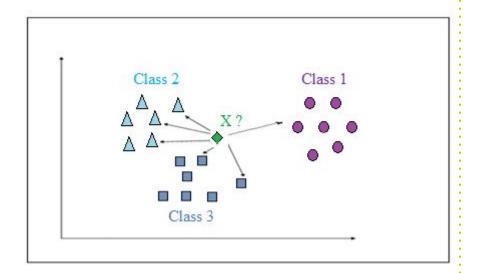
Dataset





Model

- K Nearest Neighbour(KNN)
- Used for Classification

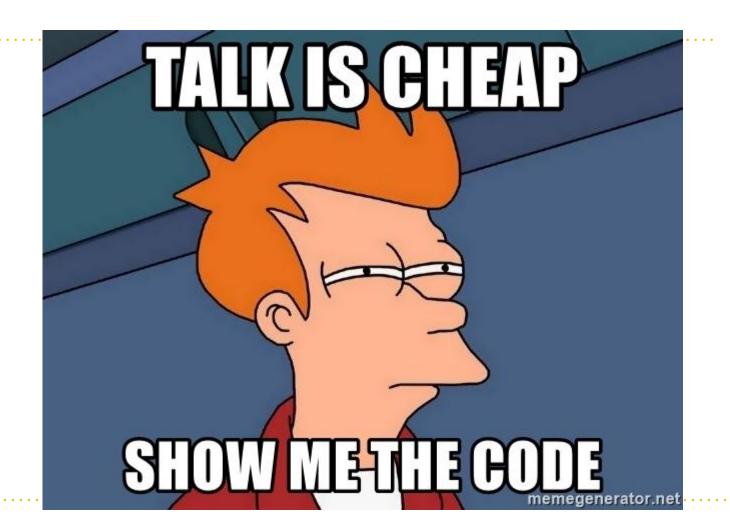




- A high-level machine learning library for the PHP language
- Developed by Andrew DalPino
- 40+ modern supervised and unsupervised learning algorithms
- Open Source

Data Alogrithm Framework

Iris Dataset KNN Rubix ML



Code

https://github.com/RubixML/Iris

What next?











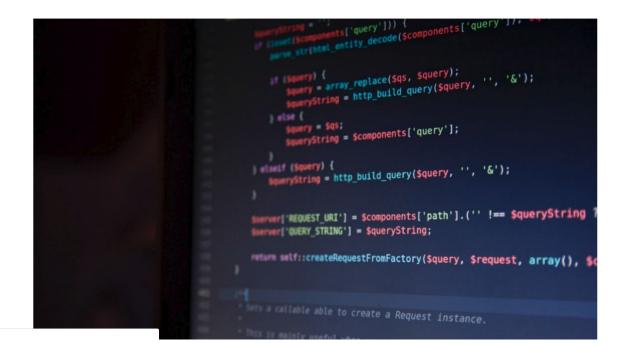
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Beginner Guide to Data Science

Curated list of Resources for Getting Started in Data Science and Deep Learning in 2019







A high-level machine learning and deep learning library for the php language.

- o Developer-friendly API is easy and delightful to use
- Modular architecture combines power, flexibility, and extensibility
- 40+ modern supervised and unsupervised learning algorithms
- Open source and free to use commercially





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PHP-ML - Machine Learning library for PHP

Awards

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Installation

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Author

Machine Learning

Association rule learning

Apriori

Classification

SVC

KNearestNeighbor

NaiveBayes |

Regression

LeastSquares

SVE

stering

KMeans

DRSCAN

Metric

.

Confusion Matrix

Classification Report

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PHP-ML - Machine Learning library for PHP

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php >= 7.1 packagist v0.8.0 build passing docs passing downloads 159.36 k license MIT coverage 92% Scrutinizer 9.50
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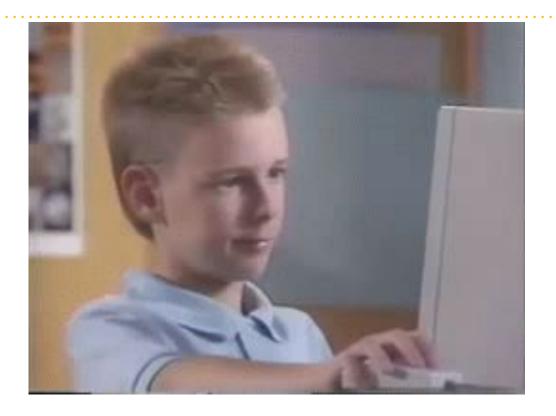
Fresh approach to Machine Learning in PHP. Algorithms, Cross Validation, Neural Network, Preprocessing, Feature Extraction and much more in one library.

PHP-ML requires PHP >= 7.1.

Simple example of classification:

```
require_once __DIR__ . '/vendor/autoload.php';
use Phpml\classification\kNearestNeighbors;

$samples = [[1, 3], [1, 4], [2, 4], [3, 1], [4, 1], [4, 2]];
$labels = ['a', 'a', 'a', 'b', 'b', 'b'];
$classifier = new kNearestNeighbors();
$classifier->train(Ssamples, $labels);
$classifier->predict([3, 2]);
// return 'b'
```



Questions?



Thanks

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