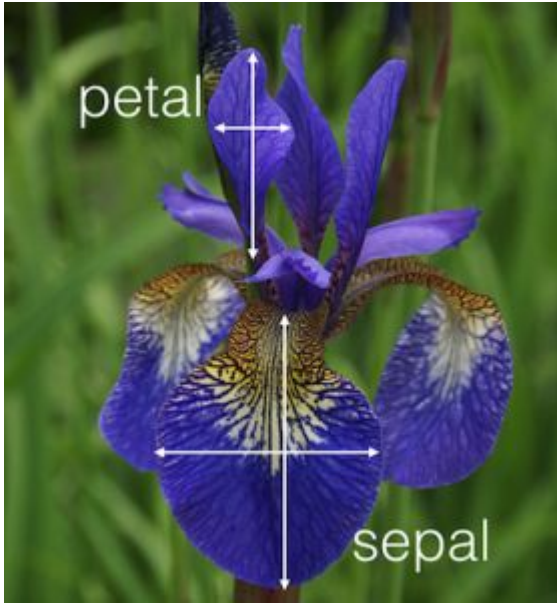


# Data Mining

Application In Modern Languages

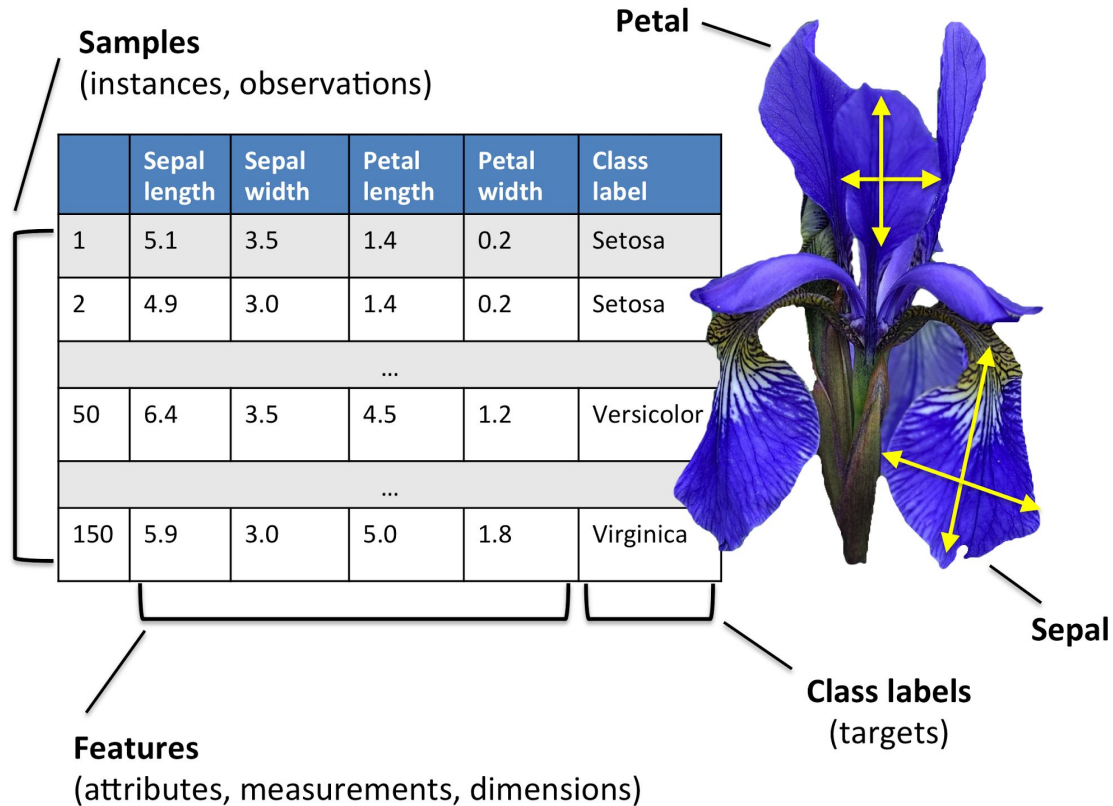
# What is DataMining



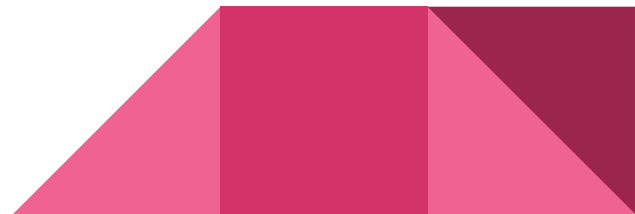
Source: [1]



# What is DataMining



# How Computer Learn?



# WhoAmI >> Masoud Kaviani



>> **Manager Of DataMinig Departmenet**  
Khabarfarsi.com



>> **Participant**, BigData Research Center

>> **First Place In StackOverflow.com, Data Mining Tag,Month**



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@masoudkaviani

# What Language To Use?

# PHP



What Language To Use?

Python



What Language To Use?

Java





What Language To Use?

# JavaScript



# What Language To Use?

**C, C++**



What Language To Use?

# Scala



What Language To Use?

**Julia**



# What Language To Use?

# C#



Percentage of Matching Job Postings (%)

0.16  
0.14  
0.12  
0.10  
0.08  
0.06  
0.04  
0.02  
0.00

2012

2013

2014

2015

2016

Oct 27, 2016

- python and ("machine learning" or "data science"): **0.159%**
- R and ("machine learning" or "data science"): **0.091%**
- Java and ("machine learning" or "data science"): **0.114%**
- Javascript and ("machine learning" or "data science"): **0.045%**
- C and ("machine learning" or "data science"): **0.046%**
- C++ and ("machine learning" or "data science"): **0.064%**
- Julia and ("machine learning" or "data science"): **0.003%**
- scala and ("machine learning" or "data science"): **0.039%**



# Python

>> Pandas

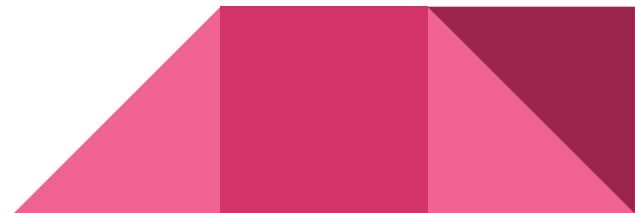
>> Numpy, Scipy

>> Scikit Learn

>> Tensorflow, Theano

>> Keras

>> Python Spark



# Java

>> **nd4j (Numpy For Java)**

>> **Weka**

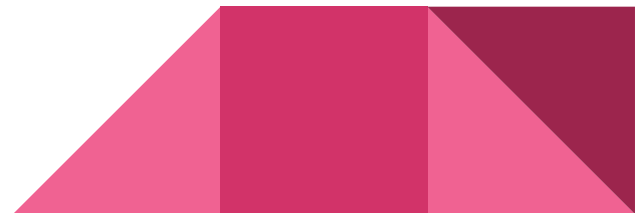
>> **DeepLearning4J (Deep Learning)**

>> **MOA (Data Streaming)**

>> **MALLET (NLP)**

>> **ELKI (Unsupervised)**

>> **Spark (Distributed)**





# C, C++

>> **Dlib (DataMining, ImageProcessing)**

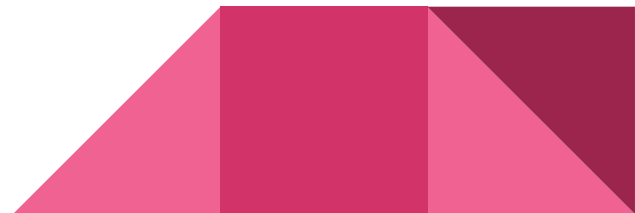
>> **MLPack**

>> **Eigen (Linear Algebra)**

>> **BLAS (Linear Algebra)**

>> **LAPACK (Linear Algebra)**

>> **LibFatArray**



# JavaScript

>> D3Js



# Scala

>> Spark (Distributed)

>> Breeze (Linear Algebra)

>> Scalala (Linear Algebra)





# Julia

Source: [5]



# PHP

>> PHP ML

>> FANN (Neural Networks)

>> Tensile (Tensorflow)

>> Wait for PHP 7 Extensions...



# C#

>> Accord Framework

>> MKL (Intel Math Kernel Lib)



# Images and Contents Sources

[1]

<http://blog.kaggle.com/2015/04/22/scikit-learn-video-3-machine-learning-first-steps-with-the-iris-data-set/>

[2] [http://sebastianraschka.com/Articles/2015\\_pca\\_in\\_3\\_steps.html](http://sebastianraschka.com/Articles/2015_pca_in_3_steps.html)

[3] [http://www.cs.toronto.edu/~urtasun/courses/CSC411\\_Fall16/CSC411\\_Fall16.html](http://www.cs.toronto.edu/~urtasun/courses/CSC411_Fall16/CSC411_Fall16.html)

[4]

[https://www.ibm.com/developerworks/community/blogs/jfp/entry/What\\_Language\\_Is\\_Best\\_For\\_Machine\\_Learning\\_And\\_Data\\_Science?lang=en](https://www.ibm.com/developerworks/community/blogs/jfp/entry/What_Language_Is_Best_For_Machine_Learning_And_Data_Science?lang=en)

[5] <http://en.unifrance.org/directories/person/412448/shahab-hosseini>, by © Habib\_Majid