

INF 1771 – Inteligência Artificial

Aula 17 – Bibliotecas e Ferramentas para
Aprendizado de Máquina

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LibSVM

❏ **LibSVM:**

❏ <http://www.csie.ntu.edu.tw/~cjlin/libsvm/>

❏ **GNUPlot:**

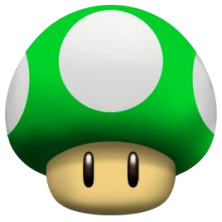
❏ <http://sourceforge.net/projects/gnuplot/files/gnuplot/4.4.3/gp443win32.zip/download>

❏ **Python:**

❏ <http://python.org/download/releases/2.7.2/>

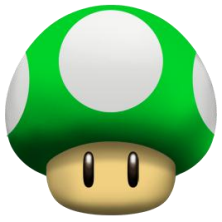
❏ **Exemplos de Datasets:**

❏ <http://www.csie.ntu.edu.tw/~cjlin/libsvmtools/datasets/>



LibSVM

- ❏ Instalação;
- ❏ Criando um Dataset;
- ❏ Treinamento e Teste;
- ❏ Analise dos Resultados;



Weka

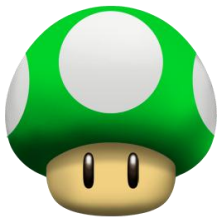
📌 Weka:

📌 <http://www.cs.waikato.ac.nz/ml/weka/>

📌 Exemplos de Datasets:

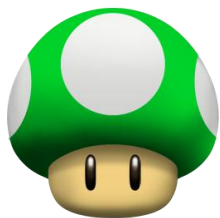
📌 "C:\Program Files\Weka-3-6\data\"

📌 http://www.cs.waikato.ac.nz/ml/weka/index_datasets.html



Weka

- ❏ Instalação;
- ❏ Criando um Dataset;
- ❏ Seleção do Algoritmo de Aprendizado;
- ❏ Treinamento e Teste;
- ❏ Análise dos Resultados;



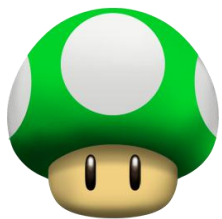
OpenCV

📖 OpenCV:

📖 <http://opencv.willowgarage.com/wiki/>

📖 Livros:

- 📖 Gary Bradski, Adrian Kaehler. **Learning OpenCV: Computer Vision with the OpenCV Library.** 2008.
- 📖 Robert Laganière. **OpenCV 2 Computer Vision Application Programming Cookbook.** 2011.



OpenCV

- ❓ Instalação;
- ❓ Configuração do Visual Studio;
- ❓ Comandos Básicos;