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# FMLearn

*Release 0.1*

Feb 27, 2020



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FMLearn



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## 1.1 FMLearn

:: pip install fmlearn

## 1.2 Python

```
import fmlearn as fl
X, y = load_digits(n_class=2, return_X_y=True)
y[y == 0] = -1
X = normalize(X)

X_train_, X_test_, y_train_, y_test_ = train_test_split(X, y, test_size=0.2, random_
↪state=12)
print(X_train_.shape)

_, n_features = X.shape

fl.FactorizationMachine.set_log_level(0)
fm = fl.FactorizationMachine(1, n_features, 100,
                             0.0001, [0.1, 0.1, 0.1],
                             0.0, 0.1,
                             True, True)
fm.fit(X_train_, y_train_, 1000)
```





## 2.1

### 2.1.1 Pip

### 2.1.2

### 2.1.3 Linux

```
sudo apt-get install git
sudo apt-get install cmake
git clone https://github.com/naihaishy/FMLearn.git
cd FMLearn
mkdir build && cd build
cmake ..
make && make install
```

### 2.1.4 Windows

#### Visual Studio

Windows Visual Studio

<https://visualstudio.microsoft.com/downloads/> Visual studio

#### Cmake

CMake

<https://cmake.org/download/> ( v3.10) CMake CMake

build.bat

Visual Studio 15 2017 build.bat

VS

ALL\_BUILD

INSTALL

results, run\_test.bat