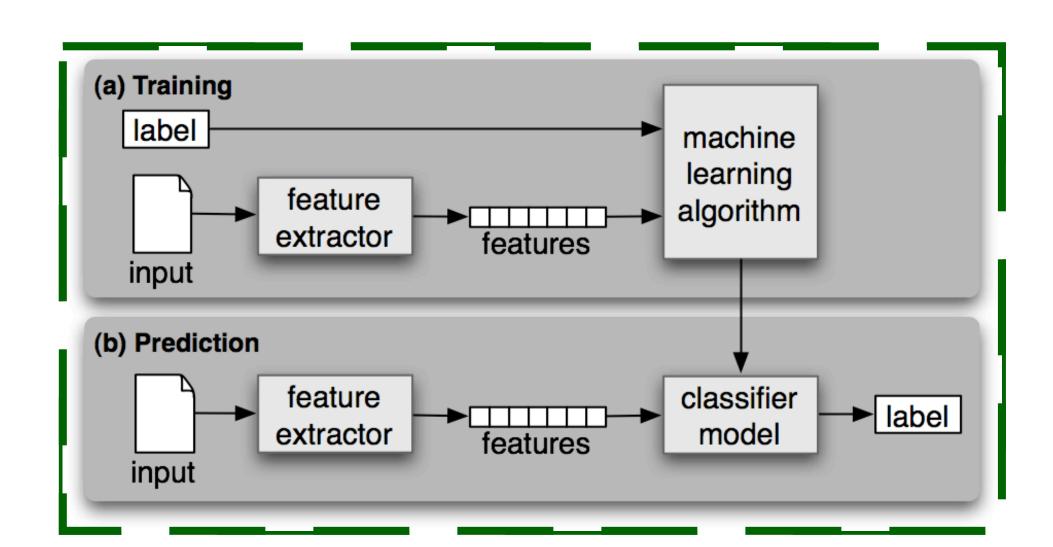
don't trade

Introduction

We all know the feeling of having money, but also know that you need to work to get money. What if you could let your money do the work for you of getting more money.

We therefore started creating a **bot** that would trade on the **currency market**, and by trying with different **strategies**, we would hope to find one that would get the **highest profit**, with the **lowest risk**



Method

(Oanda)

This bot will use the **oanda's API**, and in that way get a currency data and make trades based on it. For retrieving the data as well as making trades we will use **machine learning** with **python**, and in that way hopefully end up with some sort of **profit**.

At each strategy we would invest **10000** \$ with a leverage at 20, the data we go through is on 5-min interval from 2007 -2014

Strategy V.1

(Random)

We start with a random trader that trades 20% of each 5 min interval.

when it trades it has a 50/50 % chance of going short or long.

This strategy simulates how a normal person would trade.

Data

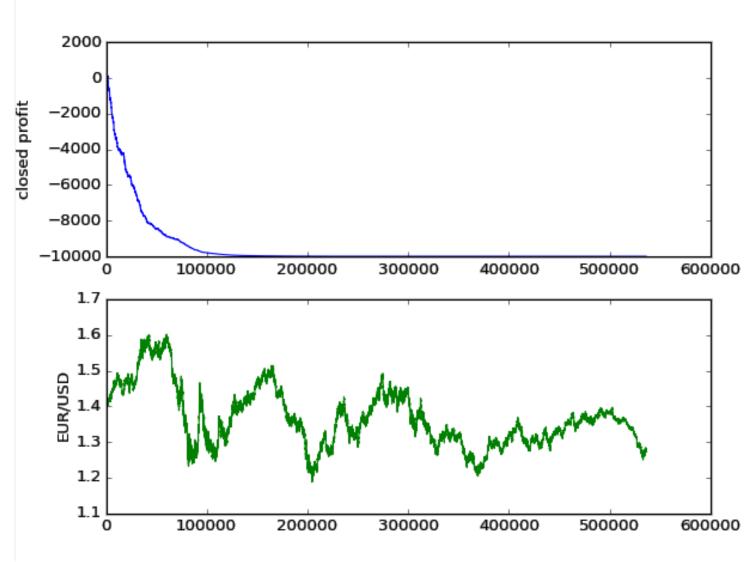
While running the random trader, we collect all **data** on the trades which gave a **profit.**

So that we can use them to **train** our **classifier**.

Result V.1

Even though we ran the random trader several times, it **keept on loosing** all money invested.

Closed profit: -9998



Strategy V.2

(Classifier takeProfit/stopLoss)

We are using a **Naive Bayes** classifier, that will **analyze** the trading market and make a **calculated** assumption whether it should go short or long.

Profitable trades only closes
when they exceed

open Short trade

Analyze prices

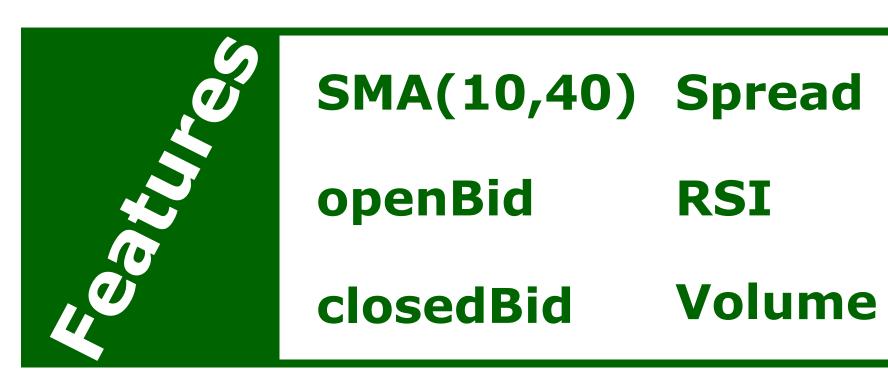
open Long trade

takeProfit or stopLoss

Features

A classifier is only as good as

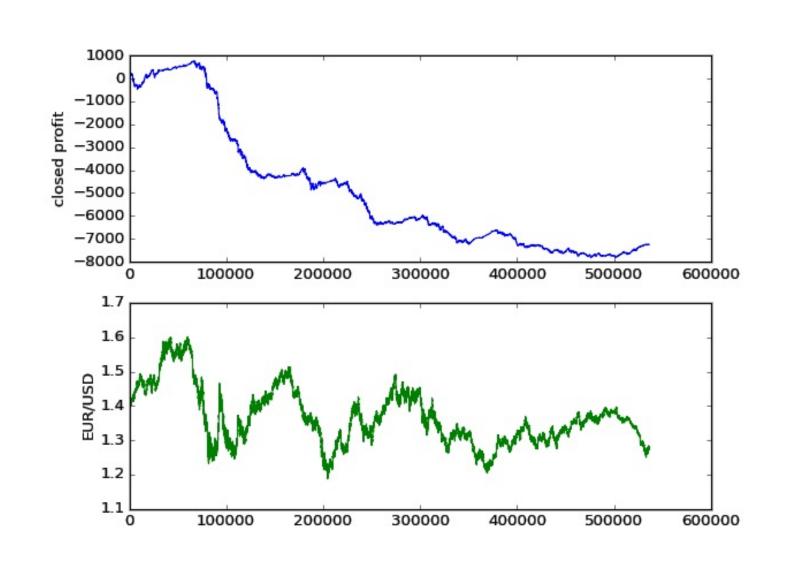
the features it receives, we therefore use six features each analyzing the data with a different view.



Result V.2

Even though we told the classifier had to be **96%** sure when it traded, it would **lose** almost all money invested.

Closed profit: -7252



Strategy V.3

(Classifier profit)

Instead of wating for the profit to exceed the **takeProfit** or **stopLoss**, we now close an order as soon as it gets **profit**.

This means that the profit is earned though a **slow** proces, over several orders.



Result V.3

Now that we change the strategy our classifier would close trades, as soon they got **profit**.

Closed profit: 198232

