



What Can We Offer ?

Know exactly how much a sport is liked

Want to know what kind of sport is popular in your area? Don't worry! We not only tell you what is popular but also tell you how popular it is by giving you some numbers! You don't need to worry about finding people with same interest anymore!

Know the participation type of a certain sport

Want to catch up with the most popular topics of sports in your area? We can tell you! We can tell you if people just like to talk about the sport or if they actually like to be a part of the sport!

Know the most popular sport in different times of a day

Having trouble deciding what kind of sport you want to do for today? We can tell you what is most popular at different times of the day! Raise your chance for finding a work out buddy!

Exercise Advisor

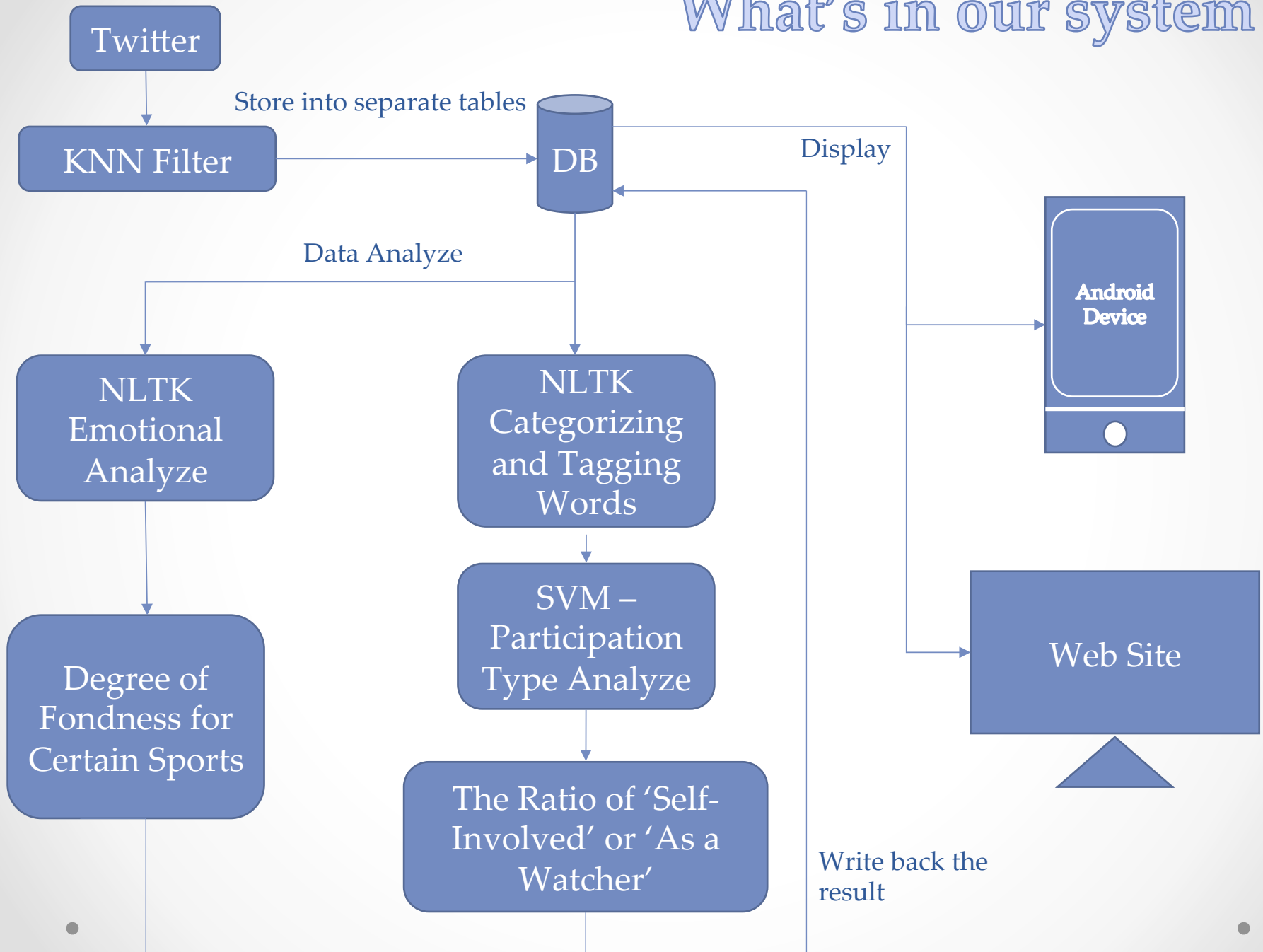
Don't know how to exercise? We can teach you! Just provide us with some personal data and our system will give you suggestion! System will combine your profile with the twitter gathered from the area and give you the best advice!

Rank List

The higher rank you can get, the more prize we will be offering you! Is this enough motivation for you? Get more exercise!



What's in our system ?





Tony Miller @Tony_MillerDWO · Nov 2

Running through JFK to catch flight! Want to get home. 20 min opening plane door when we landed, plus 45 min late starting. Joys of @delta.



1



1



KNN

Nice
Tweets



TextBlob/NLTK
Emotional Analysis



Positive



Negative

Their burgers are amazing. -- Positive
I don't like their pizza. -- Negative



Austin Faoro @TheAustinFaoro · Nov 1

Smh. I hate football today. #GoPackGo



1



Negative



Scott Bales @scottebales · 3h

burned 417 calories doing 53 minutes of Bicycling, 26-32 kph, very fast (cycling, biking, bike riding) #myfitnesspal



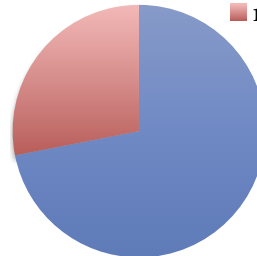
3



Positive

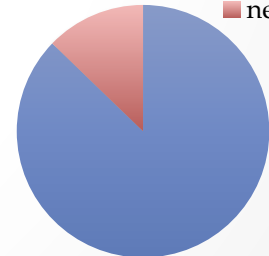
Football

■ positive
■ negative



Basketball

■ positive
■ negative



SVM



What's this ?

Self-Involved

As a Watcher



What's that ?



Ok, but how to do that ?

$$\phi_i(x) = \frac{tf_i \log(idf_i)}{\kappa}$$

1.Model

2.Prediction

Data Accurate?

NLTK
Categorizing and
Tagging Words

So, Why NLTK?



- 1, I **slept** 6 hours last night.
- 2, I don't **sleep** well lately.
- 3, I want to buy a **sleeping** bag .



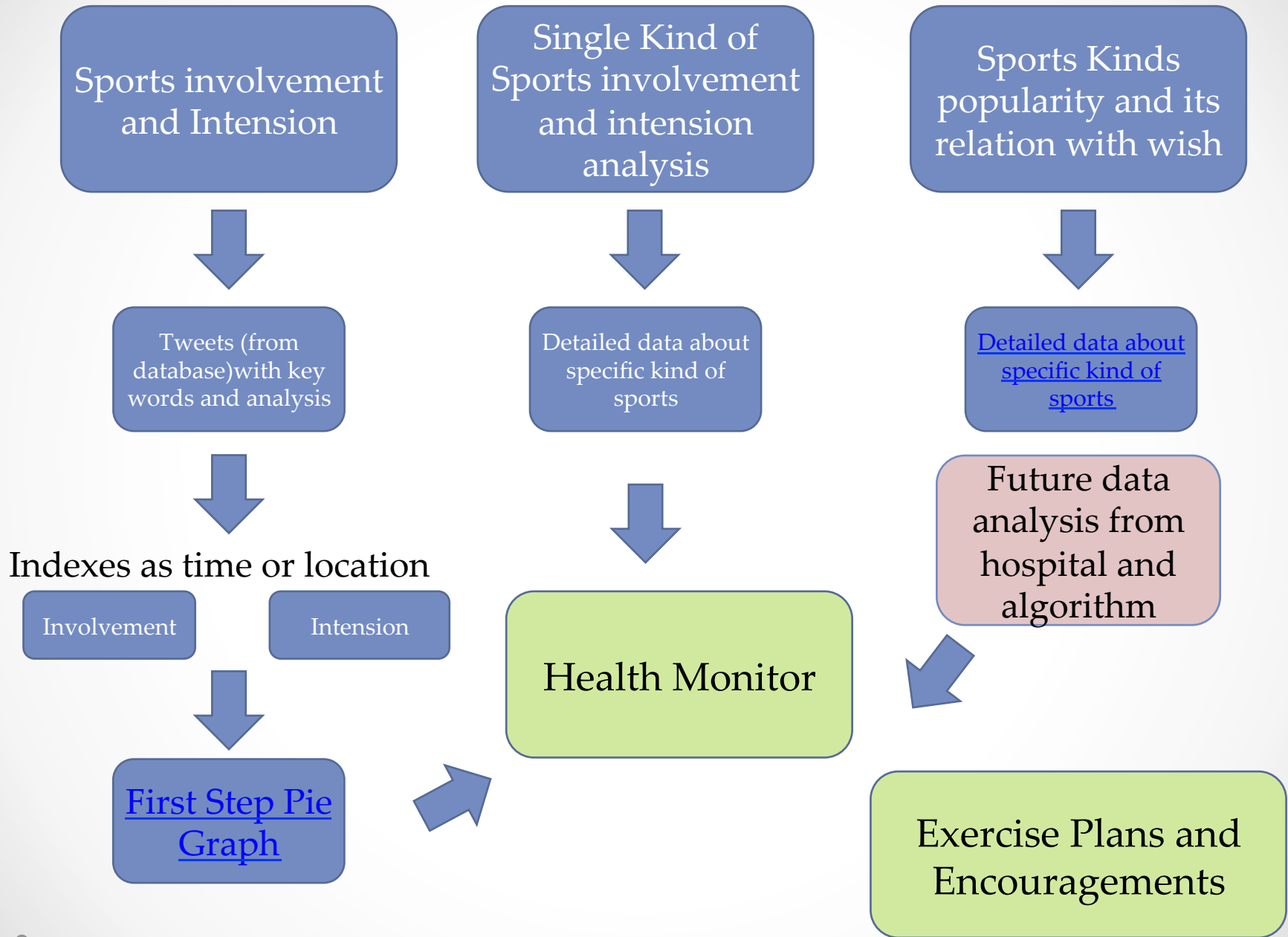
NLTK POS_TAG

NLTK Lemmatize



The formula is cited from 'An Introduction to Support Vector Machine and Other Kernel-based Learning' Nello Cristianini and John Shawe-Taylor

Website Offering



Future Work

- Optimize algorithms
- Optimize coding
- Add some new features that are related with the health monitoring
 - More useful advise!
 - Never miss the hit!
- Beautify user interface

Thank You !