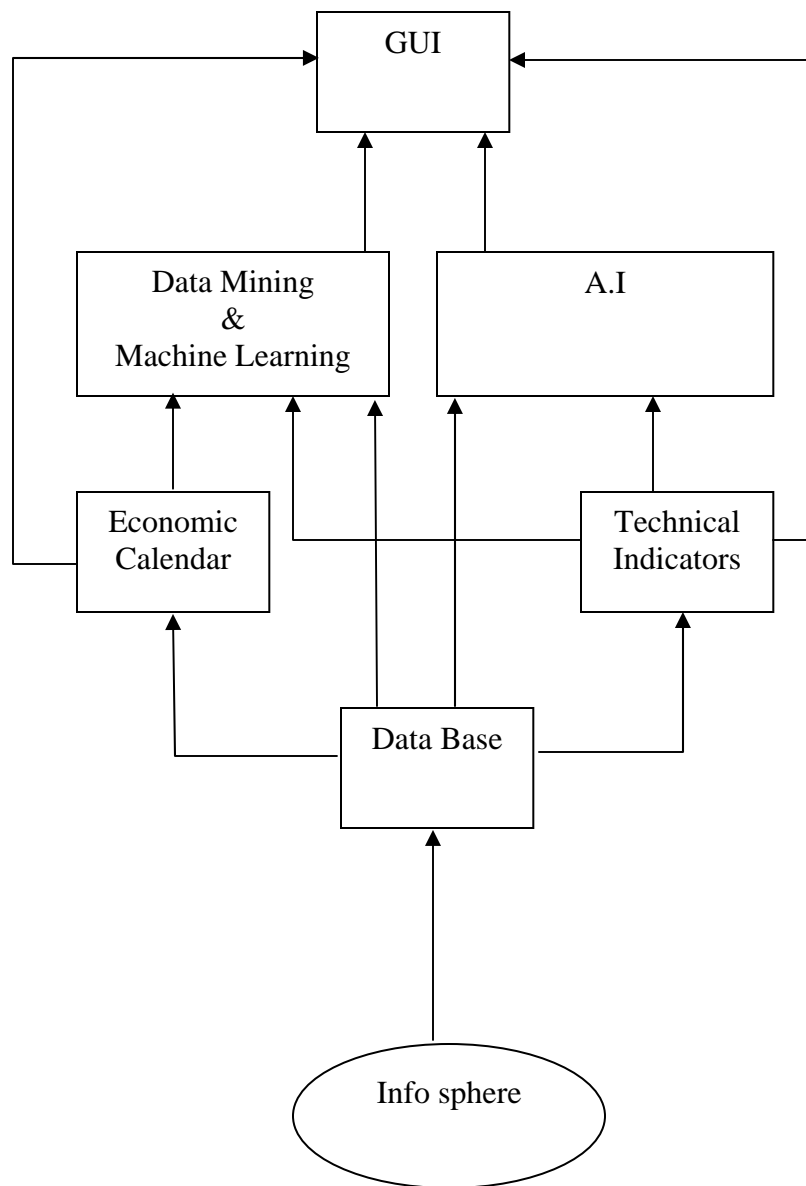Intelligentics

Description of the Software

The software must be an Evolving Automated Trading System. In order to reach this goal, it must get thru a few steps(e.g. at the end of the project, the links between economic calendar, technical Analysis to the GUI, should be deleted and also the GUI replaced with an Expert Advisor-who will play alone).

GUI

Data Mining
&
Machine Learning

A.I

Economic
Calendar

Technical
Indicators

Data Base

Info sphere

* I didn't included yet the fundamental analysis because in forex market is difficult to set it up(we will discuss about it)

Modules and roles:

Data Base: it should be used any data base software as long as its role is just to store data.

Technical Indicators: they will be used as filters in Data Mining module, in A.I. module to forecast, and GUI module.

Economic Calendar: it will be used as Filters in Data Mining and GUI module

Data Mining & Machine Learning: I propose to use WEKA it will be used to extract specific conditions using different techniques like decision tree, association rules, clustering.

A.I.: I propose to use joone and in future also some original activation function. It will be a module that evolve by it self using different ANN(artificial neural network) GA(genetic algorithms) and GP(genetic programming). Its scope is to forecast the direction of the price.

GUI: it will be use to show the user the information like Economic Calendar, Values of Technical Indicators forecast of AI module and Data Mining & Machine Learning out puts.

Not being represented in the design blue print, we should have a set of patterns on which will make tests something like a benchmark.

Not being my specialty I hope this design will fulfill the requirements of a software design.

At this point I didn't explain in details how I consider each module should be develop, tested and validated

Marius