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| Title of Project: | Optimisation of Wireless Network Access Point Positioning Using Artificial Intelligence |

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Discussed

Possible ideas for project:

Currency exchange prediction

Analysis of what currency would be best to buy and predicted time to wait before selling or at least show the risk potential.

Will involve:

* finding patterns from old data
* Predict the likely hood of gaining or losing money
* Find all permutations of exchange between each currency with a likely hood of gaining profit.
* Idea could be converted to cyrpto-currencies following their trend as market is less influenced by outside forced such as political forces.

WiFi modelling

Using an AI algorithm to find the best setting for placement of WiFi access points for best coverage and speed.

Will need to take In to consideration

* Range of WiFi AP
* Takes into consideration obstacles / noise
* Channel mapping (adjacent AP on different channels , limited channels)
* Based on four colour theorem but on a 3d scape
* Difference for 2.4ghz (only has 3 non-overlapping channel frequencies) and 5ghz (22)

Convert natural language to search term.

If you were to take a natural language sentence, divide it down and to create a searchable problem.

Rather monumental challenge and has been achieve before. I’m just interested on how I would do this.

* Would probably need dictionary to look up words
  + Decide each words Importance by giving a weighting eg noun very high

Learning/training algorithm introduced to compare combination of words that are similar in spelling but have different weight when measured against of word in the sentence.

Actions needed to take

* Need to think of more simplistic ideas.
* Look at the trends in industry see if it is possible to find more inspiration.