MoSCoW

# Must have:

* Ability to collect live data from GDAX API endpoint.
* Ability to make predictions of next value based on the data collected with “**G**ood **O**ld-**F**ashioned **AI**” predictions.
* Ability to collect historic data from GDAX API to decrease time required to collect enough data to make above predictions.
* Ability to store historic data so that minimal data collection is required on each runtime.

# Should have:

* Ability to see gaps in held data and fill as follows;
  + Re-attempt to collect prices (in the event of a failed API call when storing data).
  + Fill with the average price of data either side of the gap.
* Ability to make predictions of next value based on the data collected with Neural Network predictions.
* Ability to automatically trade based on above predictions.
* Ability to display neural network accuracy;
  + And allow the user to manually retrain.

# Could have:

* Ability to automatically retrain the neural network based on falling accuracy as training data becomes more historic.
* Ability to allow the user to input investment protection levels;
  + Ability to set single withdrawal of X when investment value reaches Y (i.e. withdraw initial investment when a large enough profit is made).
  + Ability to set regular withdrawals of X when investment value reaches Y (i.e. withdraw profit each time it reaches a large enough value).
  + Ability to halt trading if certain conditions are met (i.e. a loss threshold is reached within a certain time period);
    - Halt converts investment to base currency (USD).
    - Ability to set base currency to another traded currency (i.e. the user’s “most trusted” cryptocurrency).

# Would have:

* Ability to collect data from multiple exchange APIs and consider how accurate GDAX prices are.
* Ability to trade concurrently on multiple exchanges based on both likely growth and prices local to each exchange.
  + Due to the usual delay of currency arriving at exchange wallets it would be unlikely that the system would swap value between exchanges, a value would be deposited into each exchange and traded based on global prices rather than the exchange’s price.