A green sign with white text

Description automatically generated

Tschinux

Trump Selection (acc: 65%)

**Strategy:**

* Deep Neural Network
* Used ‘keras tuner’ to find model

**Data:**

* Merged all Files
  + Filters (std: 0.8, mean: 0.5, games: 0.9)
* Removed duplicates
* Checked for line consistency
* Features: cards
* Label: trump

**Neural Network:**

* Network Definition
  + Input Layer: Dense with activation function relu  
    and Input shape: 36
  + 7 Hidden Layers: Dense with activation function relu
    - 42 🡺 69 🡺 64 🡺 35 🡺 35 🡺 18 🡺 29
  + Output Layer: Dense with activation function softmax  
    Shape: 7
* Optimazer: stochastic gradient descent
* Loss Function: categorical crossentropy
* Epochs: 100, Batch Size: 256
* Time to train: ~1h

Play Card (acc: 67%)

**Strategy:**

* Deep Neural Network
* Hidden layer neuron count based on sqrt(m\*n) and (m\*n)/2 (m for input layers, n for output layers)

**Data:**

* Merged all Files
* Removed duplicates
* Checked for line consistency
* Features: cards + ticks + player + trump
* Label: card

**Neural Network:**

* Network Definition
  + Input Layer: Dense with activation function relu  
    and Input shape: 36
  + 4 Hidden Layers: Dense with activation function relu
    - 82 🡺 59 🡺 55 🡺 36
  + Output Layer: Dense with activation function softmax  
    Shape: 36
* Optimazer: stochastic gradient descent
* Loss Function: categorical crossentropy
* Epochs: 100, Batch Size: 300
* Time to train: ~5h

Image result for g-unit logo