As stated during the “Ice Breaker” I am an avid Magic: The Gathering player. I am also trying to learn some basic machine learning tactics. I am currently working on a machine learning script that can give suggest relevant cards based on the current meta (ie, which decks are currently preforming well, etc.).

To make this happen we first need a database of all cards. From there we need to look at how all the data is formatted. The database of cards comes as a json object, so there are lists of lists defining all of the properties of each card. The properties are recycled in different combinations making the number of unique attributes reasonable. We need to find irrelevant data (if there is any) and remove it. From there we need to preprocess the data and change attributes to dataframes of binary or scalar [-1,1] values. We need to bring in current meta data and format that as well. From there we need to train a model. Once we have a model, we can take inputs and out a recommended set of cards.

NB – Solid boxes represent TERMINATORS, hollow boxes represent a STORE