model evaluation visualisation

May 14, 2021

```
[1]: import os
     import numpy as np
     import pandas as pd
     from matplotlib import pyplot as plt
     RESULTS_DIR = '..\\..\\results\\CNN Training Results\\'
     MODEL NAMES = [
         'discard-cnn-45',
         'pon-cnn-54',
         'kan-cnn-23',
         'kita-cnn-32',
         'riichi-cnn-34'
     ]
[2]: def load_data(path, file):
         csv_path = os.path.join(path, file)
         return pd.read csv(csv path, sep=',')
[3]: df = {}
     for model in MODEL_NAMES:
         csv_filename = model + '-validation-epoch-accuracy.csv'
         df[model] = load_data(RESULTS_DIR, csv_filename)
         model_scaled = model + '-scaled'
         csv_filename = model_scaled + '-validation-epoch-accuracy.csv'
         df[model_scaled] = load_data(RESULTS_DIR, csv_filename)
[4]: plt.figure(figsize=(12, 6))
     plt.ylim((0.45,0.70))
     plt.yticks(np.arange(0.45, 0.70, 0.025))
     plt.xticks(np.arange(0, 201, 10))
     plt.grid()
     plt.plot(df['discard-cnn-45']['Step'], df['discard-cnn-45']['Value'],
     →label='Unscaled')
     plt.plot(df['discard-cnn-45-scaled']['Step'],__

→df['discard-cnn-45-scaled']['Value'], label='Scaled')
```

```
plt.title('Discard Model Validation Accuracy', fontsize=24)
plt.xlabel('Epochs', fontsize=24)
plt.legend(fontsize=16)

plt.savefig("../../../Dissertation/figs/discard-validation-accuracy.png")
plt.show()
```









