**SA-SNN\_document**

Sa-SNN: Spiking Attention Neural Network for Image Classification

**Requirements**

* Python3
* PyTorch
* SnnTorch
* NumPy
* MNIST Dataset

URL:https://www.kaggle.com/datasets/hojjatk/mnist-dataset

* Fashion-MNIST dataset

URL:https://www.kaggle.com/datasets/zalando-research/fashionmnist

* N-MNIST

URL:https://www.garrickorchard.com/datasets/n-mnist

**Scripts**

**model.py**

A script for defining the SECA attention mechanism and new residual structure proposed in this design

**train.py**

A script for testing the results of this design