config = {

"exp\_name": "DVS", # Experiment name

"num\_trials\_eval": 3, # Number of trails to execute (separate training and evaluation instances)

"num\_epochs\_eval": 20, # Number of epochs to train for (per trial)

"data\_dir": "~/data/", # Data directory to download and store data

"batch\_size": 16, # Batch size

"seed": 0, # Random seed

"num\_workers": 0, # Number of workers for the dataloader

"num\_bits": None, # Bit resolution. If None, floating point resolution is used

"save\_csv": True, # Whether or not to save loss, lr, and accuracy dataframes

"early\_stopping": True, # Whether or not to use early stopping

"patience": 100, # Number of epochs to wait for improvement before stopping

# Network parameters

"grad\_clip": True, # Whether or not to clip gradients

"weight\_clip": True, # Whether or not to clip weights

"batch\_norm": False, # Whether or not to use batch normalization

"dropout": 0.203, # Dropout rate

"beta": 0.614, # Decay rate parameter (beta)

"threshold": 0.427, # Threshold parameter (theta)

"lr": 2.634e-3, # Initial learning rate

"slope": 4.413, # Slope value (k)

# Fixed params

"num\_steps": 1, # Number of timesteps to encode input for 100 TODO

"correct\_rate": 0.8, # Correct rate

"incorrect\_rate": 0.2, # Incorrect rate

"betas": (0.9, 0.999), # Adam optimizer beta values

"t\_max": 735, # Frequency of the cosine annealing scheduler (5 epochs)

"t\_0": 735, # Initial frequency of the cosine annealing scheduler

"t\_mult": 2, # The frequency of cosine is halved after every 4690 iters (10 epochs)

"eta\_min": 0, # Minimum learning rate

}