```
Wed Apr 10 23:44:46 2024
                                                           1
src/b_early_stop.py
    1: import even samples
    2: import cifar_costf
    3: import numpy as np
    4: import keras
   5:
    6: a = \{
   7: "best_params": [
   8:
           913.957430854217,
                                  # minibatch
   9:
          0.0015701252586464568, # alpha
  10:
          0.6575874719325618, # beta_1
       0.932720394784433, # beta_2
  11:
  12:
         81.32088463431727
                                 # num_epochs
  13:
  14:
         "best_cost": 1.8064099550247192
  15: }
  16:
  17:
  18: b = \{
  19:
       "best_params": [
   20:
           534.4469442210992,
                                 # minibatch
   21:
          0.0006231460669478447, # alpha
  22: 0.7991814790199026, # beta_1
   23:
                                 # beta_2
          0.9007039736299371,
   24:
          44.05592177501114
                                    # num_epochs
   25:
   26:
         "best_cost": 1.7486121654510498
   27: }
   28:
   29: b_{mod} = {
   30:
        "best_params":
   31:
          742.2428227795274,
                                 # minibatch
        0.0009079703308546692, # alpha
   32:
         0.8199336231638713, # beta_1
0.6038924210437369, # beta_2
64.06011278706069 # num_epo
   33:
   34:
   35:
                                 # num_epochs
   36:
   37:
         "best_cost": 1.7933474779129028
   38: }
   39:
   40: b_{early} = [
   41:
        629.5247124786772,
   42:
        0.0006845628875473787,
   43: 0.7511800761780283,
   44: 0.5624740720563961,
   45:
         86.87354850522438
   46: 1
   47:
   48: versions = [("a", a), ("b", b), ("b_mod", b_mod)]
   49:
   50: (x_train, y_train), (x_test, y_test) = even_samples.even_sample_categories(50000)
   51: params = np.array(b_early)
   52: cost = cifar_costf.costf(params, (x_train[:1000], y_train[:1000]), (x_train[1000:], y_train[1000:]))
   53: print (cost)
```