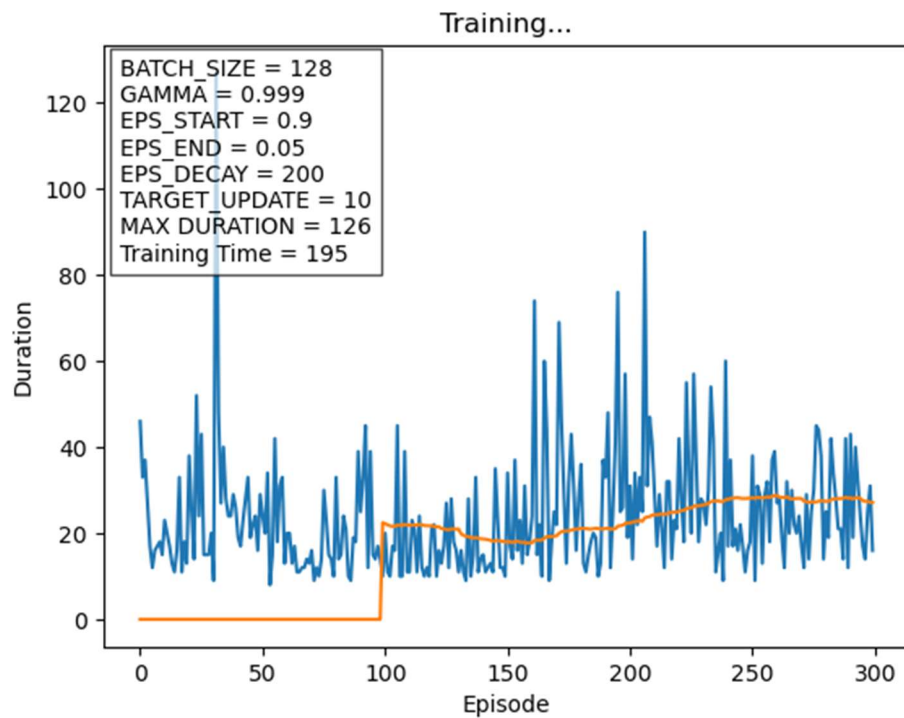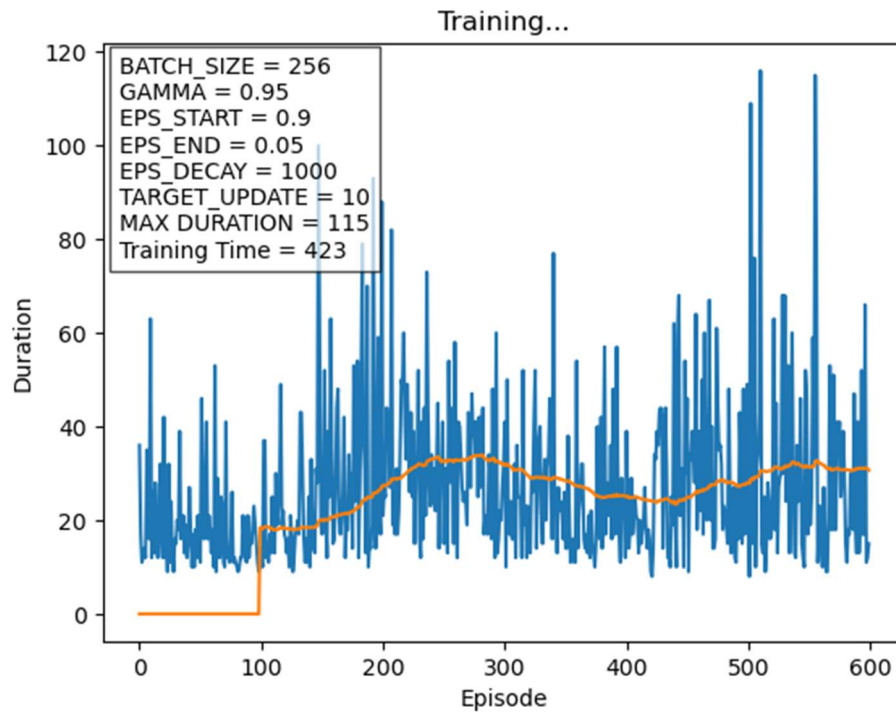# Various network architectures and parameters for CartpoleDQN from Image

Group K: Fioritto Alessandro, Pilutti Filippo, Simonitti Samuele
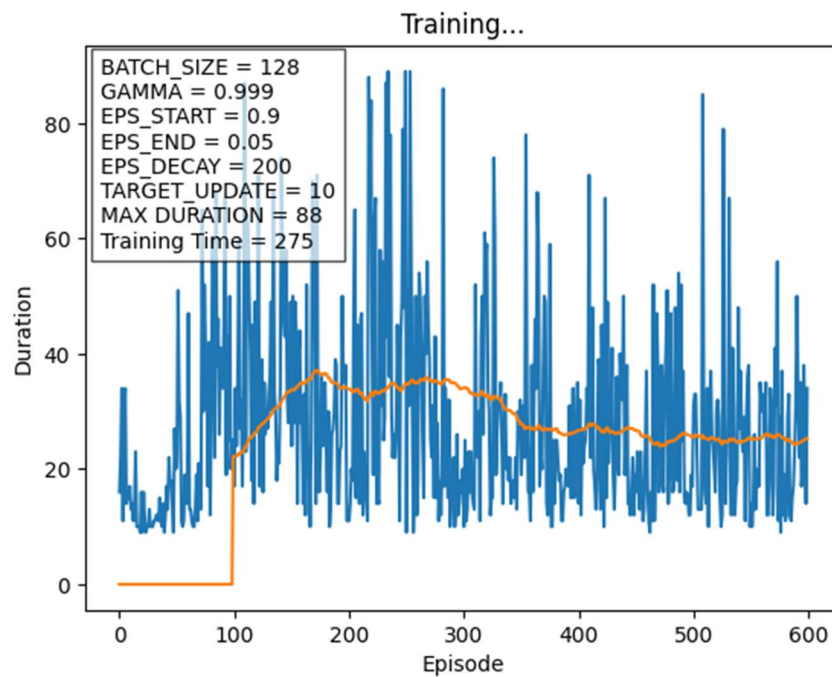
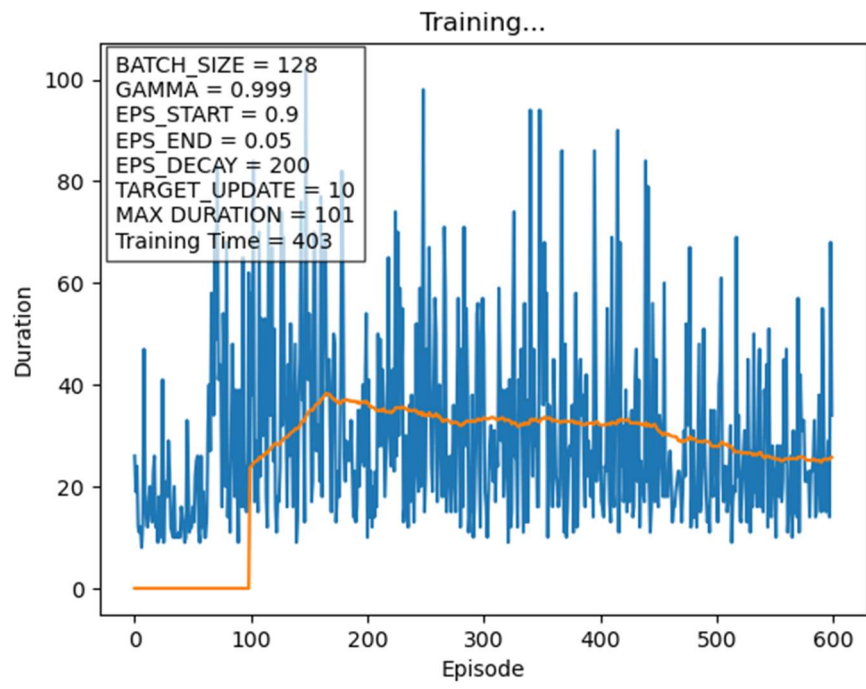Base architecture and parameters

Base architecture with parameters from DQN cartpole

Training...

BATCH_SIZE = 256
GAMMA = 0.95
EPS_START = 0.9
EPS_END = 0.05
EPS_DECAY = 1000
TARGET_UPDATE = 10
MAX DURATION = 115
Training Time = 423

One additional convolutional layer with padding = 1, maintaining the same output dimensions from the previous channel

Training...

BATCH_SIZE = 128
GAMMA = 0.999
EPS_START = 0.9
EPS_END = 0.05
EPS_DECAY = 200
TARGET_UPDATE = 10
MAX DURATION = 88
Training Time = 275

Same convolutional level but we added a fully connected layer with 128 neurons before the output layer

Training time is in seconds

Training...

BATCH_SIZE = 128
GAMMA = 0.999
EPS_START = 0.9
EPS_END = 0.05
EPS_DECAY = 200
TARGET_UPDATE = 10
MAX DURATION = 101
Training Time = 403

Training time is in seconds