

```
module = DataModule(  
    datafiles=['data.h5ad'],  
    labelfiles=['labels.csv'],  
    class_label='Cell Type',  
)  
  
logger = WandbLogger(  
    project="Single-Cell Classifier",  
    name=name,  
)  
  
lr_callback = pl.callbacks.LearningRateMonitor(logging_interval='epoch')  
early_stopping_callback = pl.callbacks.EarlyStopping(  
    monitor='val_loss',  
    patience=4,  
)  
  
trainer = pl.Trainer(  
    gpus=1,  
    logger=wandb_logger,  
    gradient_clip_val=0.5,  
    callbacks=[  
        lr_callback,  
        upload_callback,  
        early_stopping_callback,  
    ]  
)  
  
model = SIMSClassifier(  
    input_dim=module.num_features,  
    output_dim=module.num_labels,  
)  
  
trainer.fit(model, datamodule=module)
```