

```
init.kaiming_uniform_(self.weight, a=math.sqrt(5))
eatures=8, bias=False)
                                                   if self.bias is not None:
                                                       fan_in, _ = init._calculate_fan_in_and_fan_out(self.weight)
                           reset parameters
                                                       bound = 1 / math.sqrt(fan_in) if fan_in > 0 else 0
ures=1024, bias=False)
                                                       init.uniform_(self.bias, -bound, bound)
          nn.Linear
                                            self.in_features
                                           self.out features
                            init
                                              self.weight
                                               [self.bias]
                                         self.weight.requires grad = False
                                         if fan in fan out:self.weight.data = self.weight.data.T
n.Linear, LoraLayer)
                            init
                                         nn.Linear.reset_parameters(self)
                                         self.update layer(adapter name, r, lora alpha, lora dropout, init lora weights)
                                            lora dropout > 0.0:lora dropout layer = nn.Dropout(p=lora dropout)
                                          else:lora dropout layer = nn.Identity()
                            init
                                          self.lora dropout.update(nn.ModuleDict({adapter name: lora dropout layer}))
                                          if r > 0:
                                              self.lora_A.update(nn.ModuleDict({adapter_name: nn.Linear(self.in_features, r, bias=False)}))
                                              self.lora B.update(nn.ModuleDict({adapter name: nn.Linear(r, self.out features, bias=False)}))
                        update_layer
                                              self.scaling[adapter_name] = lora_alpha / r
                                          if init lora weights:
                                              self.reset_lora_parameters(adapter_name)
          LoraLayer
                                                      if adapter_name in self.lora_A.keys():
                                                          # initialize A the same way as the default for nn.Linear and B to zero
                                                         nn.init.kaiming_uniform_(self.lora_A[adapter_name].weight, a=math.sqrt(5))
                                                         nn.init.zeros_(self.lora_B[adapter_name].weight)
                          reset lora parameters
                                                     if adapter_name in self.lora_embedding_A.keys():
                                                         # initialize a the same way as the default for nn.linear and b to zero
                                                         nn.init.zeros_(self.lora_embedding_A[adapter_name])
rue)
                                                          nn.init.normal (self.lora embedding B[adapter name])
```