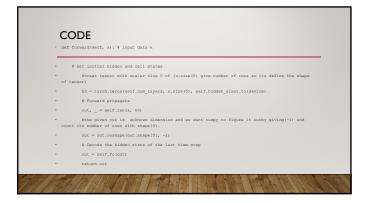


## \*\*Popular Comparison of the Comparison of the Comparison of the Comparison of Comparis

## \*\*Recurrent neural network (many-to-one) class RNN(nn.Module): #nn.module is a parent class (inherited) call by RNN which is ohid class def init (self, input size, hidden size, num layers, num classes): super(RNN, melf).\_\_init\_\_() \*give access to child class in parent class self.hidden\_size \* hidden\_size \* #give number of nodes in hidden layer to model self.num\_layers = num\_layers \* IF batch first TNUE then the input and output tensors are provided as (batch, seq, feature) self.rnm = nn.RNN(input\_size, hidden\_size, num\_layers, batch\_first\*True) # give all data to model \* "hidden\_size \* sequence\_length" is number of input features and num\_classes is output features.lineer transformation to the incoming data: y = xA^T + b self.fe = nn.Linear(hidden\_size \* sequence\_length, num\_classes) \*After linear transformation output will fully connected





```
Frank Ditters:

- for spond in range (num_sponds):

- for spond in range (num_sponds):

- for spond in range (num_sponds):

- for should get a state of the state
```

```
**CODE

* Check accuracy (loader, model):

* mm_correct = 0

* mm_amples = 0

* Set model to eval

* model.eval() * model in evaluating mode so deactivates all dropout layers or training is stop

* with torch.mo_grad(): *stop gradient calculation

* prise is support and Y is output (data and labels)

* for x, y in loader: *sload contain data x is input image and y is label data

* squeeze remove single-dimensional entries

* x x to (device-device) squeeze(1)

y = y.to(device-device) = squeeze(1)

y = y.to(device-device) = squeeze(1)

scores = model(x)
```

