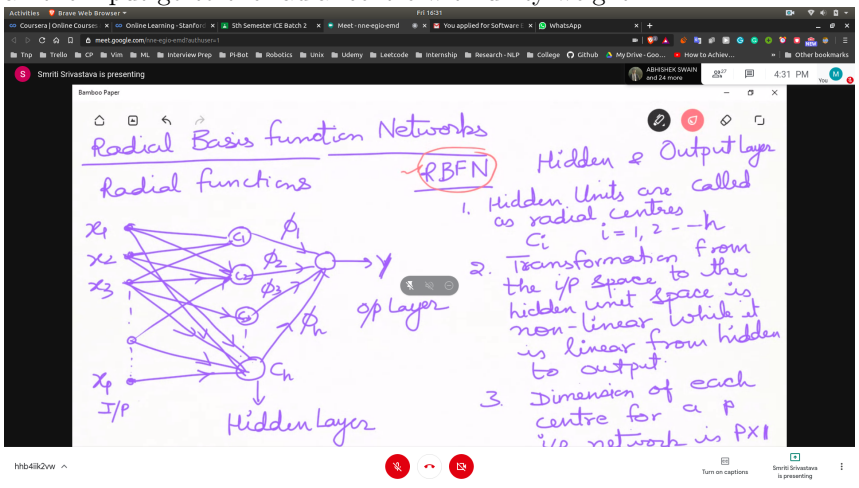
Hidden Layer's and Neuron

How many neurons in hidden layer? - Start with 5 neurons and then move on increasing

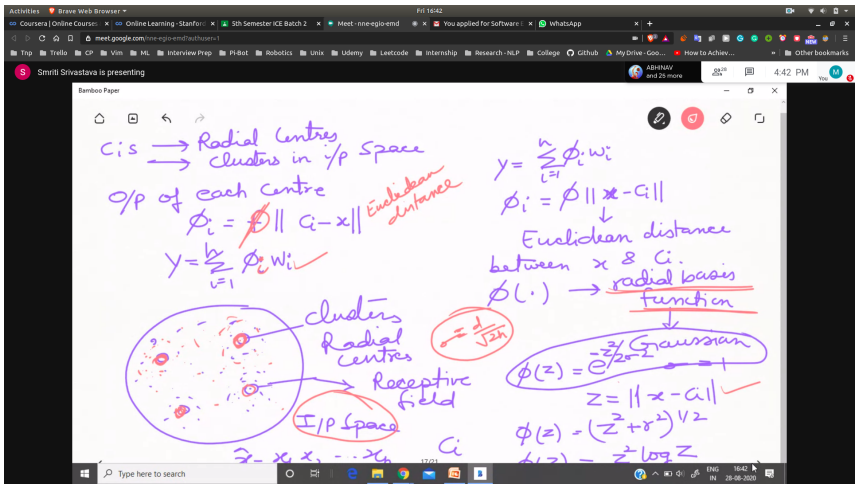
- Size of the training set in relation to hidden neurons
- If we have total for eg 67 weights , then you have to have 70 examples
- Training and Verification
  - Training set is broken into training set and testing set
  - Verification is to be done in the testing set

Radial Basis Function Networks

- Hidden Units are called radial centres
- Tranformation from input to hidden is non-linear
- Transformation from hidden to output is linear ### How radial centres are chosen
- We chose the radial centre of the dense data points
- Now if we input is given , those radial centres are activated which are close to these data outputs
- all the input go to the radial centre with unity weight



- Radial Basis function

- 

RBFNN	MLFNN
single hidden layer	multiple hidden layer
hidden layer are non-linear	all layers are non-linear
act. function is a function of euclidan function	here activation func. is ~
two fold learning(radial centres,conncection wts)	one learning (weight's only)