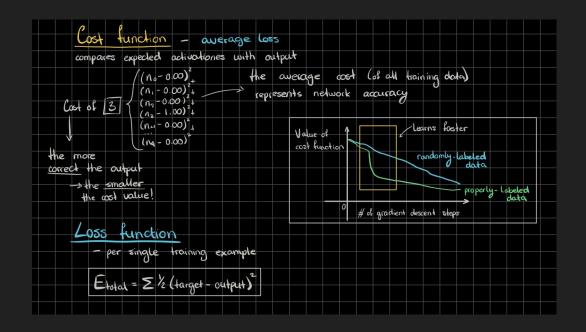
Week 2 Research

Maria Shevchuk

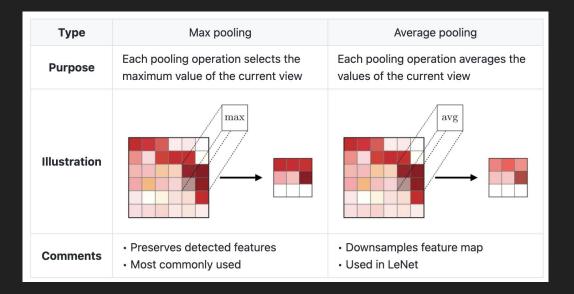
Everything CNN's

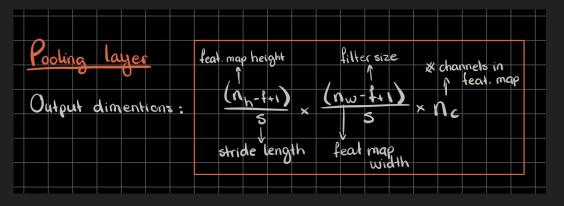
- Network structure
- Sigmoid Activation function
- CNN vs MLP
- Cost function
 - Network accuracy
 - Loss function
- Padding and step size



Pooling Layers

- Average pooling
- Max pooling
- Global pooling
- Keras





Activation functions

- Sigmoid
 - Binary output
 - Tend to varnish gradient
- ReLU
 - Simple math
 - Networks with Relu tend to show better convergence performance than sigmoid. (<u>Krizhevsky et al.</u>)
 - Tend to blow up activation

