Topics:

Forward and Backward Propagation, Binary classification, Logistic regression, implementing a simple logistic regression image recognition model, deep neural networks and their implementation, implementation of deep 2-class classifier, Regularization technics (L1,L2 and drop out, etc.), normalization, initialization technics (He initialization), Gradient checking, optimization algorithms(mini-batch gradient descent, momentum, rmsprop, adam, learning rate decay), batch normalization, softmax regression and classifier, deep network implementation with tensorflow, Machine Learning Strategies, human level performance, Transfer learning, multi-task learning, End-to-end deep learning