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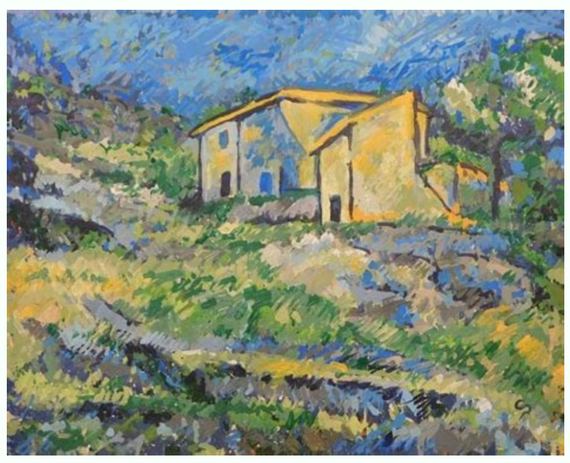

- Course 4: Convolutional Neural Networks - Course 5: Sequence Models ## Important Slide Notes I screenshotted some important slide page and store them into GitHub issues. Page 2 You can’t perform that action at this time. Programming Assignments Quiz Solutions There are concerns that some people may use the content here to quickly ace the course so I'll no longer update any quiz solution. I learned about RNNs, GRUs, LSTMs and transformers and applied them to various NLP/sequence tasks. You signed out in another tab or window. Week 2 - Deep convolutional models: case studies Build Residual Network in Keras. Generate music to Improvise a Jazz Solo with an LSTM Network. Setup Run setup.sh to (i) download a pre-trained VGG-19 dataset and (ii) extract the zip'd pre-trained models and datasets that are needed for all the assignments. - Screenshots for Course 1: Neural Networks and Deep Learning - Screenshots for Course 2: Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization - Screenshots for Course 3: Structuring Machine Learning Projects - Screenshots for Course 4: Convolutional Neural Networks - Screenshots for Course 5: Sequence Models Milestones 2017-08-17: Finished the first-released 3 courses, YAY! 🐯 Page 2 This repository has been archived by the owner. It seems not very helpful for everyone since I only keep those I think may be useful to me. Implement a neural network in TensorFlow. Week 3: Shallow neural networks Understand the key parameters in a neural network's architecture. This algorithm will help your model understand where it should focus its attention given a sequence of inputs. Instructions to use the repository Using this repository is straight forward. Similarly, try out the quizzes yourself before you refer to the quiz solutions. Week 2: Optimization algorithms Be able to implement and apply a variety of optimization algorithms, such as mini-batch gradient descent, Momentum, RMSprop and Adam, and check for their convergence. It's a treasure given by deeplearning.ai team. Credits This repo contains my work for this specialization. I learned to build and train CNN models (YOLO for object detection, U-Net for image segmentation, FaceNet for face verification and face recognition) for visual detection and recognition tasks and to generate art work through neural style transfer by using a pre-trained VGG-19 model. But this course comes with very interesting case study quizzes (below). I used pre-trained transformer models for question-answering and named-entity-recognition tasks. Page 2 You can’t perform that action at this time. Week 3 - Object detection Learn how to apply your knowledge of CNNs to one of the toughest but hottest field of computer vision: Object detection. Course 5 - Sequence Models Course Objective: This course focuses on how to build and train Recurrent Neural Networks (RNNs), and commonly-used variants such as GRUs and LSTMs, able to apply sequence models to natural language problems, including text synthesis and sequence models to audio applications, including speech recognition and music synthesis. It is now read-only. Week 4 - Special applications: Face recognition & Neural style transfer Discover how CNNs can be applied to multiple fields, including art generation and face recognition. There is no Programming Assignment for this course. Week 3 - Sequence models & Attention mechanism Sequence models can be augmented using an attention mechanism. Rather than the deep learning process being a black box, you will understand what drives performance, and be able to more systematically get good results. Implement Character-Level Language Modeling to generate Dinosaur names. Week 1 - Foundations of Convolutional Neural Networks Build Convolutional Model in python from scratch. Be able to effectively use the common neural network "tricks", including initialization, L2 and dropout regularization, Batch normalization, gradient checking along with implementation. Build Face Recognition model for the Happy House. Please do not copy any part of the code as-is (the programming assignments are fairly easy if you read the instructions carefully). Master Deep Learning, and Break into AI Instructor: Andrew Ng Introduction This repo contains all my work for this specialization. Course 4 - Convolutional Neural Networks Course Objective: This course focuses on how to build a convolutional neural network, including recent variations such as residual networks, how to apply convolutional networks to visual detection and recognition tasks and use neural style transfer to generate art. Implement Art Generation with Neural Style Transfer. There are discussion forums on most MOOC platforms, however, even a question with detailed description may need some time to be answered. This course is the most straight-forward deep learning course I have ever taken, with fabulous course content and structure. Week 2: Neural Networks Basics Python Basics with Numpy and Logistic Regression with a Neural Network mindset. Week 4 - Transformer Network Use HuggingFace tokenizers and transformers to perform Named Entity Recognition and Question Answering Results Some results from the programming assignments of this specialization Neural style transfer Image classification using Logistic Regression from scratch in Python Accuracy vs number of hidden layers in MLP for planar data set Disclaimer The solutions uploaded in this repository are only for reference when you got stuck somewhere. Week 1 - Recurrent Neural Networks Build a Recurrent Neural Network in python from scratch. I do understand the hard time you spend on understanding new concepts and debugging your program. Transfer Learning with MobileNet. Please don't use these solutions to pass programming assignments. This repository contains all my work for this specialization. Week 1: Practical aspects of Deep Learning Understand industry best-practices for building deep learning applications. Image segmentation with U-Net. Implement Neural machine translation with attention and Trigger word detection. Here I released these solutions, which are only for your reference purpose. It may help you to save some time. Autonomous driving application - Car detection. Examples of applications are sentiment analysis, named entity recognition and machine translation. Course 4: Convolutional Neural Networks Course 5: Sequence Models Quiz Solutions Course 1: Neural Networks and Deep Learning Week 1 Quiz - Introduction to deep learning: Text | PDF Week 2 Quiz - Neural Network Basics: Text | PDF Week 3 Quiz - Shallow Neural Networks: Text | PDF Week 4 Quiz - Key concepts on Deep Neural Networks: Text | PDF Course 2: Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization Week 1 Quiz - Practical aspects of deep learning: Text | PDF Week 2 Quiz - Optimization algorithms: Text | PDF Week 3 Quiz - Hyperparameter tuning, Batch Normalization, Programming Frameworks: Text | PDF Course 3: Structuring Machine Learning Projects Week 1 Quiz - Bird recognition in the city of Peacetopia (case study): Text | PDF Week 2 Quiz - Autonomous driving (case study): Text | PDF Course 4: Convolutional Neural Networks Week 1 Quiz - The basics of ConvNets: Text | PDF Week 2 Quiz - Deep convolutional models: Text | PDF Week 3 Quiz - Detection algorithms: Text | PDF Week 4 Quiz - Special applications: Face recognition & Neural style transfer: Text | PDF Course 5: Sequence Models Week 1 Quiz - Recurrent Neural Networks: Text | PDF Week 2 Quiz - Natural Language Processing & Word Embeddings: PDF Week 3 Quiz - Sequence models & Attention mechanism: Text | PDF Disclaimer I recognize the time people spend on building intuition, understanding new concepts and debugging assignments. Page 2 You can’t perform that action at this time. Clone this repository to use. Course Objective: This course teaches the "magic" of getting deep learning to work well. Week 2 - Natural Language Processing & Word Embeddings Using word vector representations and embedding layers you can train recurrent neural networks with outstanding performances in a wide variety of industries. You can’t perform that action at this time. This course is almost the simplest deep learning course I have ever taken, but the simplicity is based on the fabulous course content and structure. Course 3 - Structuring Machine Learning Projects Course Objective: This course focuses on how to diagnose errors in a machine learning system, be able to prioritize the most promising directions for reducing error, understand complex ML settings, such as mismatched training/test sets and comparing to and/or surpassing human-level performance and how to apply end-to-end learning, transfer learning, and multi-task learning. 2021 Version This specialization was updated in April 2021 to include developments in deep learning and programming frameworks, with the biggest change being shifting from TensorFlow 1 to TensorFlow 2. Programming assignments and quizzes from all courses in the Coursera Deep Learning specialization offered by deeplearning.ai. They are meant to unblock you if you get stuck somewhere. I used RNNs to built a character-level language model to generate dinosaur names, LSTMs to built a Seq2seq model for Neural Machine Translation with attention and trigger word detection model. Week 3: Hyperparameter tuning, Batch Normalization and Programming Frameworks Understand new best-practices for the deep learning era of how to set up train/dev/test sets and analyze bias/variance. The code base, quiz questions and diagrams are taken from the Deep Learning Specialization on Coursera, unless specified otherwise. Instructor of the specialization: Andrew Ng Table of Contents My Learnings from the Specialization In this five course series, I learned about the foundations of Deep Learning by implementing vectorized neural networks (MLP, CNN, RNN, LSTM) and optimization algorithms (SGD, RMSprop, Adam) from scratch in Python, building and training deep neural networks in TensorFlow and Keras and identifying key parameters in network architecture for hyperparameter tuning. But this course comes with very interesting case study quizzes. Planar data classification with a hidden layer Week 4: Deep Neural Networks Understand the key computations underlying deep learning, use them to build and train deep neural networks, and apply it to computer vision. And I hope you don't copy any part of the code (the programming assignments are fairly easy if you read the instructions carefully), see the quiz solutions before you start your own adventure. I learned about the best practices to train and develop test sets and analyzed bias/variance for building DL applications, diagnosed and used strategies for reducing errors in ML systems, understand complex ML settings and used transfer learning for image classification tasks. Reload to refresh your session. It's a treasure by the deeplearning.ai team. The solutions uploaded here are only for reference. Currently, this repo has 3 major parts you may be interested in and I will give a list here. All the code base, quiz questions, screenshot, and images, are taken from, unless specified, Deep Learning Specialization on Coursera. Instructor: Andrew Ng Notes For detailed interview-ready notes on all courses in the Coursera Deep Learning specialization, refer www.aman.ai. Week 1: Introduction to deep learning Be able to explain the major trends driving the rise of deep learning, and understand where and how it is applied today. You signed in with another tab or window. Programming Assignments Course 1: Neural Networks and Deep Learning Course 2: Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization Course 3: Structuring Machine Learning Projects There are no programming assignments for this course. Weekly Learning Objective Course 1 - Neural Networks and Deep Learning Course Objective: This course focuses on vectorized implementation of neural networks in Python. What I want to say VERBOSE CONTENT WARNING: YOU CAN JUMP TO THE NEXT SECTION IF YOU WANT As a CS major student and a long-time self-taught learner, I have completed many CS related MOOCs on Coursera, Udacity, Udemy, and Edx. You signed in with another tab or window. This repo has been updated accordingly as well.

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