Connect - Deep Learning Syllabus

Contact Info

While going through the program, if you have questions about anything, you can reach us at . For help from Udacity Mentors and your peers visit the Udacity Classroom.

Nanodegree Program Info

Version: 1.0.0

Length of Program: 118 Days*

** This is a self-paced program and the length is an estimation of total hours the average student may take to complete all required coursework, including lecture and project time. Actual hours may vary.*

Part 1: Introduction to Deep Learning

Part 2: Neural Networks

Project: Predicting Bike-Sharing Patterns

In this project, you'll build and train your own Neural Network from scratch to predict the number of bikeshare users on a given day. Good luck!

Part 3: Convolutional Neural Networks

Project: Dog-Breed Classifier

In this project, you will learn how to build a pipeline to process real-world, user-supplied images. Given an

image of a dog, your algorithm will identify an estimate of the canine's breed.

Project: Optimize Your GitHub Profile

Other professionals are collaborating on GitHub and growing their network. Submit your profile to ensure your profile is on par with leaders in your field.

Supporting Lessons

Lesson	Summary
Jobs in Deep Learning	To kick off your industry research, learn about real world applications of Deep Learning and common questions about jobs in this field.

Part 4: Recurrent Neural Networks

Project: Generate TV Scripts

Generate a TV script by defining and training a recurrent neural network.

Part 5: Generative Adversarial Networks

Project: Generate Faces

Define two adversarial networks, a generator and discriminator, and train them until you can generate realistic faces.

Project: Improve Your LinkedIn Profile

Find your next job or connect with industry peers on LinkedIn. Ensure your profile attracts relevant leads that will grow your professional network.

Part 6: Deploying a Model

Project: Deploying a Sentiment Analysis Model

In this project, you will build and deploy a neural network which predicts the sentiment of a user-provided movie review. In addition, you will create a simple web app that uses your deployed model.

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