

Deep Learning Nanodegree Foundation Content Release Schedule

January 2017

Projects

Project	Release Date	Project Deadline
Your first neural network Build a simple network to make predictions of bike sharing usage.	1/27	2/10
Object Classification Build a neural network that classifies objects from images	2/22	3/8
Generate TV scripts Use deep learning to generate new scripts for your favorite TV show.	3/22	4/5
Make a translation chatbot Build a chatbot that translates text in real time.	4/5	4/19
Generate Faces Use a generative adversarial network (GAN) to generate novel faces.	5/10	5/24

In addition to the projects, every Wednesday we will release additional Udacity content.

Siraj's Videos

Video Title	Release Date
Video 1: Types of ML, when to use ML (linear regression)	1/13
Video 2: Neural Network Architecture + Types (numerical classification)	1/20
Video 3: Cloud computing + sentiment analysis (text classification)	1/27
Video 4: Math Notation + recommender systems (algebra, calculus, matrix math)	2/3
Video 5: Data preparation (cleaning, regularization, dimensionality reduction)	2/10
Video 6: Drone image tracking (image classification with CNNs)	2/17

Video 7: Stock prediction (regression with RNNs)	2/24
Video 8: Art generation (transfer learning)	3/3
Video 9: Music generation (LSTMs applied to Audio)	3/10
Video 10: Poetry generation (LSTMs applied to NLP)	3/17
Video 11: Language translation (sequence to sequence)	3/24
Video 12: Chatbot QA System with voice (sequence to sequence more in-depth)	3/31
Video 13: Game bot 2D (reinforcement learning via Monte-Carlo tree search)	4/7
Video 14: Image compression (autoencoders)	4/14
Video 15: Data visualization (anomaly detection results in 2D and 3D)	4/21
Video 16: Image generation (generative adversarial networks)	4/28
Video 17: One-shot learning (Probabilistic Programming)	5/5

Siraj's Live Sessions

Session Title	Release Date
Live 1: Linear regression from scratch	1/18
Live 2: numerical classification from scratch	1/25
Live 3: Sentiment Analysis from scratch + cloud computing detailed instructions	2/1
Live 4: Various math examples + recommender system from scratch	2/8
Live 5: Data prep from scratch	2/15
Live 6: image classification from scratch	2/22
Live 7: Stock prediction from scratch	3/1
Live 8: Artistic Style transfer from scratch	3/8
Live 9: Generating music from scratch	3/15
Live 10: Text generation from scratch	3/22
Live 11: Language translation from scratch	3/29
Live 12: Chatbot from scratch	4/5
Live 13: Game bot from scratch	4/12
Live 14: autoencoder from scratch	4/19
Live 15: data visualization from scratch	4/26
Live 16: Generative adversarial network from scratch	5/3
Live 17: One shot learning from scratch	5/10