

SOFTWARE/HARDWARE LIST:-

Chapter Name	Chapter number	Software required (With version)	Hardware specifications	OS required
Neural Network Foundations	1	<input type="checkbox"/> Tensorflow 1.0.0 or higher <input type="checkbox"/> Keras 2.0.2 or higher <input type="checkbox"/> Matplotlib 1.5.3 or higher <input type="checkbox"/> Scikit-Learn 0.18.1 or higher <input type="checkbox"/> Numpy 1.12.1 or higher	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 10GB of hard disk space available	Windows, Mac or Linux
Keras Installation, Configuration and Architecture	2	<input type="checkbox"/> Tensorflow 1.0.0 or higher <input type="checkbox"/> Keras 2.0.2 or higher <input type="checkbox"/> Matplotlib 1.5.3 or higher <input type="checkbox"/> Scikit-Learn 0.18.1 or higher <input type="checkbox"/> Numpy 1.12.1 or higher	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 10GB of hard disk space available	Windows, Mac or Linux
Going Deep: Convnets	3	<input type="checkbox"/> Tensorflow 1.0.0 or higher <input type="checkbox"/> Keras 2.0.2 or higher <input type="checkbox"/> Matplotlib 1.5.3 or higher <input type="checkbox"/> Scikit-Learn 0.18.1 or higher <input type="checkbox"/> Numpy 1.12.1 or higher	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 10GB of hard disk space available	Windows, Mac or Linux
Generative Adversarial Networks and WaveNet	4	<input type="checkbox"/> Tensorflow 1.0.0 or higher <input type="checkbox"/> Keras 2.0.2 or higher <input type="checkbox"/> Matplotlib 1.5.3 or higher <input type="checkbox"/> Scikit-Learn 0.18.1 or higher <input type="checkbox"/> Numpy 1.12.1 or higher	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 10GB of hard disk space available	Windows, Mac or Linux
Word Embeddings	5	<input type="checkbox"/> Tensorflow 1.0.0 or higher <input type="checkbox"/> Keras 2.0.2 or higher <input type="checkbox"/> Matplotlib 1.5.3 or higher <input type="checkbox"/> Scikit-Learn 0.18.1 or higher <input type="checkbox"/> NLTK 3.2.1 or higher <input type="checkbox"/> Numpy 1.12.1 or higher <input type="checkbox"/> Gensim 1.0.1 or higher	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 10GB of hard disk space available	Windows, Mac or Linux
Recurrent Neural Networks	6	<input type="checkbox"/> Tensorflow 1.0.0 or higher <input type="checkbox"/> Keras 2.0.2 or higher <input type="checkbox"/> Matplotlib 1.5.3 or higher <input type="checkbox"/> Scikit-Learn 0.18.1 or higher <input type="checkbox"/> NLTK 3.2.1 or higher <input type="checkbox"/> Numpy 1.12.1 or higher	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 10GB of hard disk space available	Windows, Mac or Linux
Additional Deep Learning Models	7	<input type="checkbox"/> Theano 0.9.0 or higher (optional) <input type="checkbox"/> Tensorflow 1.0.0 or higher <input type="checkbox"/> Keras 2.0.2 or higher <input type="checkbox"/> Scikit-Learn 0.18.1 or higher <input type="checkbox"/> Matplotlib 1.5.3 or higher <input type="checkbox"/> Numpy 1.12.1 or higher <input type="checkbox"/> NLTK 3.2.1 or higher <input type="checkbox"/> Pandas 0.18.1 or higher	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 10GB of hard disk space available	Windows, Mac or Linux
AI Game Players	8	<input type="checkbox"/> Tensorflow 1.0.0 or higher <input type="checkbox"/> Keras 2.0.2 or higher <input type="checkbox"/> Pygame 1.9.2 or higher <input type="checkbox"/> Matplotlib 1.5.3 or higher <input type="checkbox"/> Scipy 0.19.0 or higher <input type="checkbox"/> Numpy 1.12.1 or higher	Either 32 or 64 bit architecture, 2+ GHz CPU, 4GB RAM, at least 10GB of hard disk space available	Windows, Mac or Linux