SOFTWARE/HARDWARE LIST:-

Chapter Name	Chapter number	Software required (With version)	**Hardware specifications**	OS required
Introduction to Artificial Intelligence	1	• None	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Classification and regression using supervised learning	2	• Scikit-learn 0.17.0 • Numpy 1.1 • Matplotlib 1.5.1	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Predictive analytics with ensemble learning	3	• Scikit-learn 0.17.0 • Numpy 1.1 • Matplotlib 1.5.1	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Detecting patterns with unsupervised learning	4	• Scikit-learn 0.17.0 • Numpy 1.1 • Matplotlib 1.5.1	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Building recommender systems	5	• Scikit-learn 0.17.0 • Numpy 1.1 • Matplotlib 1.5.1	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Logic programming	6	• Scikit-learn 0.17.0 • Numpy 1.1 • Matplotlib 1.5.1 • LogPy 1.0.1 • SymPy 1.0	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Heuristic search techniques	7	• simpleai 0.8	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Genetic algorithms	8	• Scikit-learn 0.17.0 • Numpy 1.1 • Matplotlib 1.5.1 • DEAP 1.0.2	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Building games with Artificial Intelligence	9	• Numpy 1.1 • easyAI 0.0.0.1	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Natural Language Processing	10	• Scikit-learn 0.17.0 • Numpy 1.1 • NLTK 3.0 • gensim 0.13.3	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux

Probabilistic reasoning for sequential data	11	• Numpy 1.1 • Matplotlib 1.5.1 • Pandas 0.19.1 • hmmlearn 0.2.1 • PyStruct 0.2.4 • cvxopt 1.1.9	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Speech recognition	12	• Numpy 1.1 • Matplotlib 1.5.1 • Scipy 0.17.0 • python_speech_features 0.4 • hmmlearn 0.2.1	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Object detection and tracking	13	• OpenCV 3.1 • Numpy 1.1	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Artificial neural networks	14	• OpenCV 3.1 • Numpy 1.1 • Matplotlib 1.5.1 • Neurolab 0.3.5	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Reinforcement learning	15	• OpenAI Gym 0.5.7	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux
Deep learning with convolutional neural networks	16	• Tensorflow 0.11.0 • Numpy 1.1 • Matplotlib 1.5.1	64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available	Windows, Mac, or Linux