

SOFTWARE/HARDWARE LIST:-

| Chapter Name | Chapter number | Software required (With version) | Hardware specifications | OS required |
|---|----------------|---|--|------------------------|
| Introduction: Machine Learning and Statistical Science | 1 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |
| The learning process | 2 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |
| Clustering | 3 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |
| Linear and Logistic Regression | 4 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |
| Neural Networks | 5 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |
| Convolutional neural networks | 6 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 keras 2.0.8 tensorflow 1.2.1 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |
| Recurrent Neural Networks | 7 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |
| Recent Models and Developments | 8 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |
| Software installation and configuration | 9 | <ul style="list-style-type: none"> Scikit-learn 0.17.0 Numpy 1.1 Matplotlib 2.0 | 64 bit architecture, 2 GHz CPU, 4GB RAM, at least 2GB of hard disk space available | Windows, Mac, or Linux |