### Preface

# Introduction

## Toolbox and Prerequisits

- 2.1 Universal Approximation Theorem
- 2.2 Forward Propagation
- 2.3 Backward Propagation
- 2.3.1 Gradient Descent
- 2.3.2 Stochastic Gradient Descent (SGD)

# Convolutional Neural Networks

#### Recurrent Neural Networks