Deep Learning

Part 1 - Artificial Neural Networks

All below sections will be implemented with tensorflow and keras, Programming knowledge of tensorflow and keras will be given during model buildings.

Section 1

1. Artificial Neural networks Intuition

2. Plan of Attack

3. The Neuron

4. The Activation Function

5. How do Neural Networks work?

6. How do Neural Networks learn?

7. Gradient Descent

8. Stochastic Gradient Descent

9. Backpropagation

Section 2

10. Building an ANN

11. Prerequisites

12. How to get the dataset

13. Business Problem Description

14. Building an ANN - Step 1

15. Building an ANN - Step 2

16. Building an ANN - Step 3

17. Building an ANN - Step 4

18. Building an ANN - Step 5

Section 6

Section 7

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Part 3 - Recurrent Neural Networks

Section 8

60. RNN (Recurrent Neural networks) Intuition

61. What you'll need for RNN

62. Plan of attack

63. The idea behind Recurrent Neural Networks

64. The Vanishing Gradient Problem

65. LSTMs

66. Practical intuition

67. LSTM Variations

Section 9

68. Building a RNN

69. How to get the dataset

70. Building a RNN - Step 1

71. Building a RNN - Step 2

72. Building a RNN - Step 3

73. Building a RNN - Step 4

74. Building a RNN - Step 5

75. Building a RNN - Step 6

76. Building a RNN - Step 7

77. Building a RNN - Step 8

78. Building a RNN - Step 9

79. Building a RNN - Step 10

80. Building a RNN - Step 11

Section 10

Part 4 - Self Organizing Maps

Section 11

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Section 12

100. Building a SOM

101. How to get the dataset

103. Building a SOM - Step 1

104. Building a SOM - Step 2

105. Building a SOM - Step 3

106. Building a SOM - Step 4

Section 13

Case study

All above sections will be implemented with tensorflow and keras, Programming knowledge of tensorflow and keras will be given during Model buildings

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