

DEEP LEARNING WITH PYTHON



ABOUT THE COURSE:

Deep Learning is the subset of machine learning composed of algorithms that permit software to train itself to perform tasks, like speech and image recognition, by exposing multilayered neural networks to vast amounts of data. Nowadays, we are increasingly interacting with our computers by just talking to them, whether it's Amazon's Alexa, Apple's Siri, Microsoft's Cortana, or the many voice-responsive features of Google and these applications are the result of Deep Learning only. This course will give students insights on foundations of deep learning supported by implementation in Python and TensorFlow.

So, learn the Deep learning and be the part of AI Revolution...

COURSE CONTENTS :

- ▶ Basics of linear algebra, Gradient descent, logistic regression
- ▶ Probability, continuous and discrete distributions; maximum likelihood
- ▶ Indentation, statements and control flow, expression, methods, typing, libraries
- ▶ Cost functions, hypotheses, MSE cost; feed- forward networks, sigmoid
- ▶ Likelihood based cost, cross entropy
- ▶ Tensor Program in Python, arrays, APIs, building a model.
- ▶ Design, Convolutional layer, local Connectivity, spatial arrangement, pooling layer, oss layer
- ▶ Google Net, The inception module and its variants, Implementation of Mini GoogleNet
- ▶ Deeper GoogleNet



PROJECTS :

- 1) Recognition of Handwritten Digits
- 2) Breaking Captchas with a CNN
- 3) Smile Detection

The Complete Solution to Projects including Algorithms and Working Codes will be shared with Course Participants.

**COMMENCEMENT
DATE:**

9th February, 2018

**CONCLUSION
DATE:**

20th February, 2018

BATCH 1

6:00 PM to 7:30 PM
(Monday to Friday)

BATCH 2

2:30 PM to 4:00 PM
(Monday to Friday)

COURSE FEE: RS. 1534/- (INCLUDING SERVICE TAX)

Course Instructors

Dr. Swati Shilaskar

☎ 9881496902

Dr. Shripad Bhatlawande

☎ 7768917788