AJEENKYA
D Y PATIL UNIVERSITY
THE INNOVATION UNIVERSITY

School of Engineering

Activity Report

Event Title: Seminar on Python for AI.

Organized by: SOHA, In collaboration with Ajeenkya DY patil University.

Date: October 4th and 5th, 2018

Venue: Computer lab ULC, ADYPU

Faculty Coordinator: Dr. Debirupa Hore

Objective: 2 DAYS WORKSHOP ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

As we all know that the Artificial Intelligence and Machine learning technology is one of the fast and most growing technologies in today's world. The application of Artificial intelligence is not only limited to the field of Engineering but also to various fields of business, product service, smart assistant, forecasting stock market, agriculture, etc and many more amazing real world applications. This technology is fast, intelligent and solves many complex and dynamic problems with very less computations.

The workshop was conducted by Ajeenkya Dy Patil, School of Engineering in association with **SOHA Pvt Ltd n October 4th and 5th, 2018**

The workshop started with very basics of Artificial Intelligence techniques and then carried its pace and covered different supervised and unsupervised learning algorithms followed by hands on coding practice with small problems in Python-Spyder. The workshop also covered machine learning basics and followed by Deep learning algorithm and its application in various fields using Tensor flow. Many problems and its coding were practiced during the session. Overall the workshop was full of hands-on practice and discussions on Practical applications. The concluding session was followed by a Quiz competition among the students.

SCHOOL OF ENGINEERING
AJEENKYA D.Y. PATIL UNIVERSITY, PUNE

Topics Covered:

Python for AI (Significant Functions, Packages and Routines) Statistics & Probability (Descriptive & Inferential Stats, Probability & Conditional Prob) Visualization principles and techniques, -Regression (Linear, Multiple, Logistic) ,Classification (k-NN, naïve Bayes) techniques Decision Trees, Clustering (k-means, hierarchical, high-dimensional) ,Expectation Maximization, Value-based methods (e.g. Q-learning) Policy-based methods, -Neural Network Basics ,Deep Neural Networks Recurrent Neural Networks (RNN) ,Deep Learning applied to Images using CNN Tensor Flow for Neural Networks & Deep Learning, Convolutional Neural Networks -Keras library for deep learning in Python ,Pre-processing Image Data -Object & face recognition using techniques above, Statistical NLP and text similarity ,Syntax and Parsing techniques, Text Summarization Techniques ,Semantics and Generation.

SCHOOL OF ENGINEERING
AJEENKYA D.Y. PATIL UNIVERSITY, PUNE

SCHOOL OF ENGINEERING
AJEENKYA D Y PATIL UNIVERSITY PUNE

Details of Workshop are as follows:

1) Date: 4-08-2018 & 5-08-2018
2) Venue: Mechatronics Lab, ULC.
3) No. of Participants: 55
4) Topic: Artificial Intelligence & Machine learning Workshop
5) Type: Direct Assisted
6) Faculty Coordinator: Dr. Debirupa Hore
7) Instructor: Ms. Pinal Pathak, SOHA Pvt Ltd.

After Every session online quizzes were conducted. Based on the score in the quizzes the certificates were issued to the participants. After the workshop feedback is taken from all participants for future improvement.

SCHOOL OF ENGINEERING
AJEENKYA D.Y. PATIL UNIVERSITY, PUNE