Artificial Intelligence & Machine Learning: Applications in Business

Industry Integrated Certification Course

8/7/2020

LLOYD BUSINESS SCHOOL

IN COLLABORATION WITH TRAINING PARTER 'V3 SOLUTIONS'

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Industry Integrated Certification Course

Artificial Intelligence & Machine Learning: Applications in Business (AI-ML)

About Course

The Annual list of Indeed's "25 best jobs of 2019" named the job of a Machine Learning Engineer as No. 1, citing a 344% increase in job postings in the last few years. The future of tomorrow is certain to be in ML and AI. The course offers building blocks in understanding of AI & ML.

This course in AI and ML gives training on the skills required to become a successful Artificial Intelligence Engineer. Throughout this exclusive course, you'll master Deep Learning, Machine Learning, and the programming languages required to excel in this domain and kick-start your career in Artificial Intelligence.

This course aims to provide:

- Comprehensive and rigorous curriculum covering key concepts and technologies of Artificial Intelligence and Machine Learning
- A week of Capstone project where you will work towards solving a Data Science related business problem under the mentorship of faculty and practitioners.
- Development of Chat bots : AI
- Hands on lab training

Who can attend?

- Students who would like to pursue a expert course in AI
- Young executives aspiring to enter and grow their careers in Management Domain.
- Academicians who are inclined towards research.
- Mid-level managers

Detailed Course

Course : Artificial Intelligence & Machine Learning: Applications in Business	Areas	Delivery Hours
Module 1: Introduction to Machine Learning		**5hrs**
1.1 Basics in Machine Learning	1. What is ML? 2. ML vs. AI 3. Statistical Models in ML	2hrs
1.2 Machine Learning Algorithms	Basic Algorithms in Machine Learning 1. Logistic Regression 2. Classification 3. Decision Tree 4. K means Clustering 5. Nearest-neighbour Methods	3hrs
Module 2 Neural Networks and Deep Learning		**10hrs**
2.1 Basic to Neural Networks and Deep Learning	1.Introduction to Neural Networks 2.Introduction to Deep Learning and its applications	5hrs
2.2 Modelling in Machine Learning	1. Model development 2. Model evaluation 3. Model deployment	5hrs
Module 3 **AI with Watson**		**5hrs**
3.1 Introduction to IBM Watson	1. Overview of IBM Watson 2. IBM WATSON Studio 3. IBM Knowledge Discovery	5hrs

	4. Natural Language
Module 4 **Natural Language Processing**	**5hrs**
4.1 Natural Language Concepts and components	5hrs 1. NLU 2. NLG 3. Natural Language Processing Pipeline 4. Natural language Processing Metrics 5. Speech to Text 6. Text to Speech 7. Personality Analyser 8. Tone Analyser
Module 5 **Computer Vision and Visual Recognition**	**5hrs**
5.1 Statistical Analysis using R	1. Image Representation 2.Computer Vision Pipeline 3.Visual Recognition - Face Recognition -General recognition \
6.Module **Building Chat-bots**	**5hrs**
6.1 Chabot development fundamentals	1. What are chat bots? 2. The emergence of Messengers and AI 3. Who are chat bots for? 4. The Chabot we're going to build
6.2 **1.Building Chat Boot Solution**	1. Chabot development and design using IBM Watson

Module 7 **Project and Case Discussions**	**5hrs**
Case Discussion and Project work	
TOTAL	***40hrs***

Course Outcomes:

Upon successful completion of this course, the student shall be able to:

- Demonstrate fundamental understanding to Artificial Intelligence (AI) and its applications.
- Apply AI solutions for problem solving, inference and designing solutions for business.
- Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models.
- To demonstrate project executions with AI platform on IBM Watson.

References

1. Artificial Intelligence | Third Edition | By Peason

Websites

https://www.ibm.com/in-en/watson