CSC322 NETWORK AND DISTRIBUTED PROGRAMMING
CSC323 MACHINE LEARNING

Learning Outcomes

- To appreciate machine learning problems.
- To demonstrate ability to select effective learning algorithms.
- To design machine learning systems.
- To appreciate the nature of real-world data.
- To demonstrate practical knowledge of the structure and content of learning programs.
- To demonstrate skills in using and in the implementation of learning systems.

Content

General models of machine learning: Artificial Neural Networks, Bayesian Methods, Evolutionary Computation, Decision Tree Learning, Instance-Based Learning, Artificial Immune Systems, Data mining and other emerging models. Examples of symbolic learning systems, Examples of adaptive learning systems. Empirical nature of Machine Learning.

Pre-requisites

- CSC121 Programming and Problem Solving
- CSC124 Probability and Statistics
- CSC125 Linear Algebra
- CSC215 Introduction to Artificial Intelligence
- CSC222 Automata Theory
- CSC312 Artificial Intelligence Programming

Delivery

Lectures, seminars, group projects and discussions, supervised laboratories.