



Jansons Institute of Technology

Karumathampatti, Coimbatore - 641 659
Approved by AICTE and Affiliated to Anna University
An ISO 9001:2015 certified institution

Department of Computer Science and Engineering

Industry Readiness Course - Syllabus

Recent Advancements in Applied Machine Learning for Real Time Applications

2020 - 2021 ODD Semester

Course Objectives:

- Understand and implement the most popular learning algorithms.
- Perform feature selection and experimental set up on real tasks.
- Evaluate multiple learning algorithms across several tasks

Course Outcomes:

- Identify over fit regression models.
- Compare different regularized regression algorithms and decision tree ensemble algorithms.
- Construct training data sets, testing data sets, and model pipelines

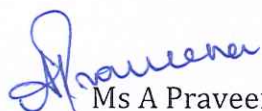
Syllabus:

Module 1 Introduction on Artificial Intelligence and Machine Learning **10**
Introduction on Artificial Intelligence - Game Tree - Heuristics - Applications - Introduction on Machine Learning - Algorithms - Applications

Module 2 Learning Algorithms **10**
Linear regression - Logistic regression - Decision tree - SVM algorithm - Naive Bayes algorithm - KNN algorithm - K-means - Random forest algorithm - Dimensionality reduction algorithms

Module 3 Neural networks and its application **10**
Perceptron - Multilayer Perceptrons (MLP) - Back-Propagation - Stochastic Gradient Descent - Hopfield Network - Radial Basis Function Network.

Course Designed By



Ms A Praveena
AP / CSE

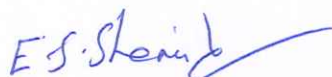
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Ms G Krishna Priya
AP / CSE

Jansons Institute of Technology

Approved By



Dr E S Shamila,
Prof / CSE

Industry Readiness Coordinator

Approved By



Dr A Velayudham,
Prof & Head /CSE

Head of Department

Dr. A. VELAYUDHAM, M.E., Ph.D.,
Professor & Head,
Dept. of Computer Science and Engineering,
Jansons Institute of Technology,
Karumathampatti, Coimbatore - 641 659.



Principal
PRINCIPAL

JANSONS INSTITUTE OF TECHNOLOGY
KARUMATHAMPATTI
COIMBATORE - 641 659.