Machine Learning: Predictive Analysis for Business Decisions

An IEEE eLearning Library Course Program

The IEEE course program, Machine Learning: Predictive Analysis for Business Decisions aims to educate on machine learning aspects this emerging technology.

Technical professionals must have an understanding of machine learning, how it is implemented, and how to use the data it yields. This course investigates the business applications of machine learning, specifically related to decision making. It also provides in-depth knowledge of collecting, analyzing and interpreting data using machine learning, and how this can benefit your business

Upon completion of this course program, technical professionals will understand:
- The most important aspects of machine learning
- How machine learning impacts businesses today
- Systems involved with machine learning
- Processes involved with machine learning

Course titles include:
- Machine Learning in the Age of Enterprise Big Data
- Machine Learning in a Data-Driven Business Environment
- Sound Business Practices for Data Mining and Predictive Analysis
- Machine Learning Algorithms, Models, and Systems Integration
- Machine Learning Platforms, Technology, and Tools

Quick Facts

Develop the skills and knowledge needed to succeed:

Five-course program designed to give engineers an understanding of Machine Learning technology from an end-to-end perspective

Courses developed and peer reviewed by experts in their fields, a process that guarantees the quality of technical content

Printable IEEE CEU or PDH certificates awarded upon successful completion of the program through the ILN

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Courses Included in the Machine Learning Program:

Machine Learning in the Age of Enterprise Big Data

This course defines big data and how modern computing enables machine learning and artificial intelligence. It also defines how machine learning fits into computational and artificial intelligence. Learn the basic types of supervised and unsupervised machine learning.

Machine Learning in a Data-Driven Business Environment

This course will help you understand sources how to classify these sources. Discover new techniques for data management how to structure data. You will learn the relationship between Statistical Modeling and Machine Learning. Upon completion, you will have a new understanding of how data drives today's business environment.

Sound Business Practices for Data Mining and Predictive Analysis

This course will help you understand techniques for data acquisition and analysis in your business. Techniques such as data mining and diagnostic analytics help you meet your KPI. This course will also teach you to implement predictive as well as prescriptive analytics. Upon completion, the details of implementing machine learning into your organizations business process will be clear.

Machine Learning Algorithms, Models, and Systems Integration

In this course, the differences between Algorithm and Mode will be explained. You will learn the process of mapping to software and the development lifecycle behind it. This course will also teach you the skills of training and validating data, as well as versioning-learned models, best practices of software engineering, and the operating environments surrounding them. Upon completion, you will understand machine learning algorithms, models, and software integration.

Machine Learning Platforms, Technology, and Tools

This course explores the characteristics and capabilities for computing. You will be able to bring data capacity together with numerical computing. You will learn the differences between data lakes and data warehouses. Upon completion, you will have a full understanding of the platforms, tools, and technology surrounding machine earning.

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