Machine Learning Certification Course

Lesson 01: Introduction to AI and Machine Learning

Lesson 02: Data Preprocessing

Lesson 03: Supervised Learning

Lesson 04: Feature Engineering

Lesson 05: Supervised Learning: Classification

Lesson 06: Unsupervised Learning

Lesson 07: Time Series Modeling

Lesson 08: Ensemble Learning

Lesson 9: Recommender Systems

9.1 Learning Objectives

9.2 Introduction

9.3 Purposes of Recommender Systems

9.4 Paradigms of Recommender Systems

9.5 Collaborative Filtering Part A

9.6 Collaborative Filtering Part B

9.7 Association Rule Mining

9.8 Association Rule Mining: Market Basket Analysis

9.9 Association Rule Generation: Apriori Algorithm

9.10 Apriori Algorithm Example: Part A

9.11 Apriori Algorithm Example: Part B

9.12 Apriori Algorithm: Rule Selection

9.13 Demo: User-Movie Recommendation Model

9.14 Practice: Movie-Movie recommendation

9.15 Key Takeaways

9.16 Lesson-end Project

Lesson 10: Text Mining

10.20 Structuring Sentences: Chinking

10.21 Context-Free Grammar (CFG)

10.22 Demo: Twitter Sentiments

10.23 Practice: Airline Sentiment

10.24 Key Takeaways

10.25 Lesson-end Project

Projects Covered:

1. Project Name: Uber Fare Prediction
   Problem Objective: Design an algorithm that will tell the fare to be charged for a passenger.

2. Project Name: Mercedes-Benz Greener Manufacturing
   Problem Objective: Reduce the time a Mercedes-Benz spends on the test bench.

3. Project Name: Amazon.com - Employee Access
   Problem Objective: Design an algorithm to accurately predict the access status to certain resources of employees.

4. Project Name: Income Qualification
   Problem Objective: Identify the level of income qualification needed for the families in Latin America.

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