

Cmpe579 Seminar:
Review Rating Prediction
by Ali Erkan

Date: 3.5.2016, Tuesday

Time: 12:00

Venue: AVS Seminar Room (BM A6)

Abstract:

Review websites, such as IMDB, TripAdvisor and Yelp, allow users to post online reviews for various businesses, products and services, and have been recently shown to have a significant influence on consumer shopping behavior. An online review typically consists of free-form text and a star rating out of 5 or 10. The problem of predicting a user's star rating for a product, given the user's text review for that product, is called Review Rating Prediction and has lately become a popular problem in machine learning. Review Rating Prediction is a multi-class classification problem, and to solve this problem different feature extraction methods have been used such as lettergrams, unigrams, bigrams, trigrams and Latent Semantic Indexing, with different machine learning algorithms such as logistic regression, Naive Bayes classification, perceptrons, and linear Support Vector Classification. We will summarize previous and current studies and talk about our studies with IMDB reviews.

Bio:

Ali Erkan received his B.Sc. and M.Sc. degrees from Department of Industrial Engineering, Bilkent University, Ankara, Turkey, and he received M.Sc. degree in Software Engineering from Department of Computer Engineering, Boğaziçi University, Istanbul, Turkey. He is currently studying for Ph.D. degree at Department of Computer Engineering, Boğaziçi University, Istanbul, Turkey. His research interests include natural language processing, machine learning, pattern recognition. Besides, he has working as java software engineer for over 15 years.