

Movie Recommendations Using Low-dimensional Codes

Christopher Curro, David Katz, Harrizon Zhao
The Cooper Union
Electrical Engineering

Abstract—We present a movie recommendation system that finds a weighted set of nearest neighbors to an arbitrary desired movie based on user specified interests in a latent space learned by an autoencoder. We learn a low-dimensional representation to make recommendations in from a much larger feature space consisting of approximately one thousand tags and their relevancies to about ten thousand movies.

I. INTRODUCTION

A. Autoencoders

B. Nearest Neighbors Recommendations

II. SYSTEM DESCRIPTION

III. RESULTS

IV. CONCLUSION