Movie Recommendations Using Low-dimensional Codes

Christopher Curro, David Katz, Harrizon Zhao
The Cooper Union
Electrical Engineering
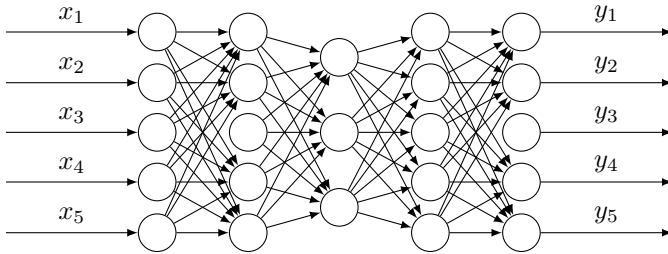
Fig. 1: Autoencoder

Abstract—We present a movie recomendation system that finds a weighted set of nearest neigbors to an arbitray desired movie based on user specified interests in a latent space learned by an autoencoder. We learn a low-dimensional representation to make recomendentions 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 Recomendations

II. SYSTEM DESCRIPTION

A. Autoencoder

B. Recomendations

III. RESULTS

IV. CONCLUSION