# Love Story of Netflix and IMDB

# Deep Learning based approach to Hybrid Recommendation Engine

# Beating the Netflix Grand Prize Winners:

**Bellkor in 2009** achieved an RMSE of 0.8567 using a purely collaborative approach.

#### Challenges:

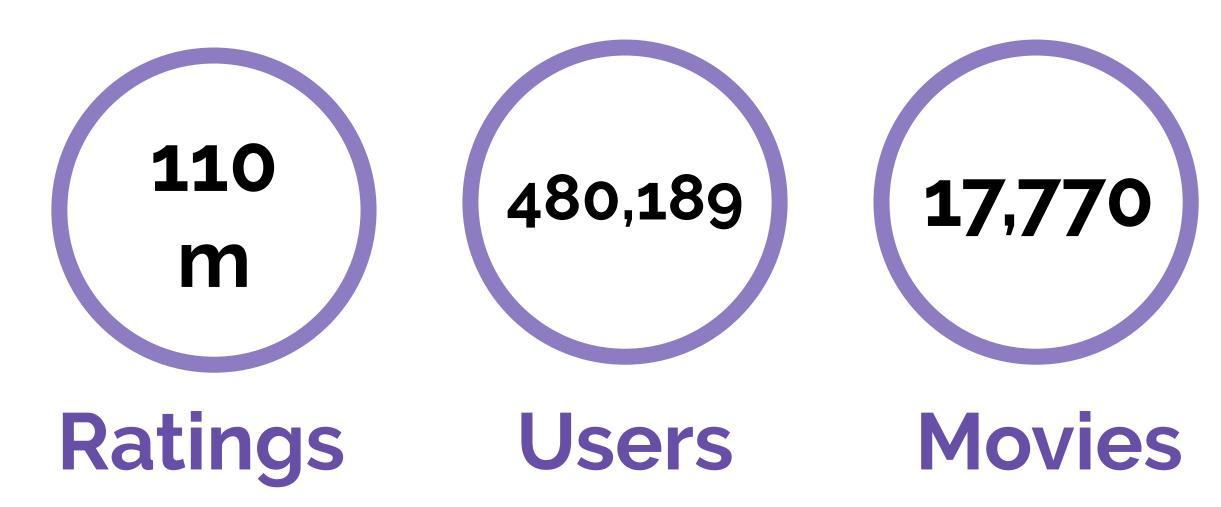
- Combining Content Based and Collaborative Filtering
- Combination of categorical and continuous variables
- Combining two databases with imperfect matches

## Major Accomplishments:

- Merging complementary datasets
- Compressed representation of movies and users
- 2.7% improvement of RMSE over Bellkor's RMSE

192

### **Netflix Dataset**



#### **IMDB** Dataset









Human Features

Temporal Features

Commercial Features

Descriptive Features

#### Flow

