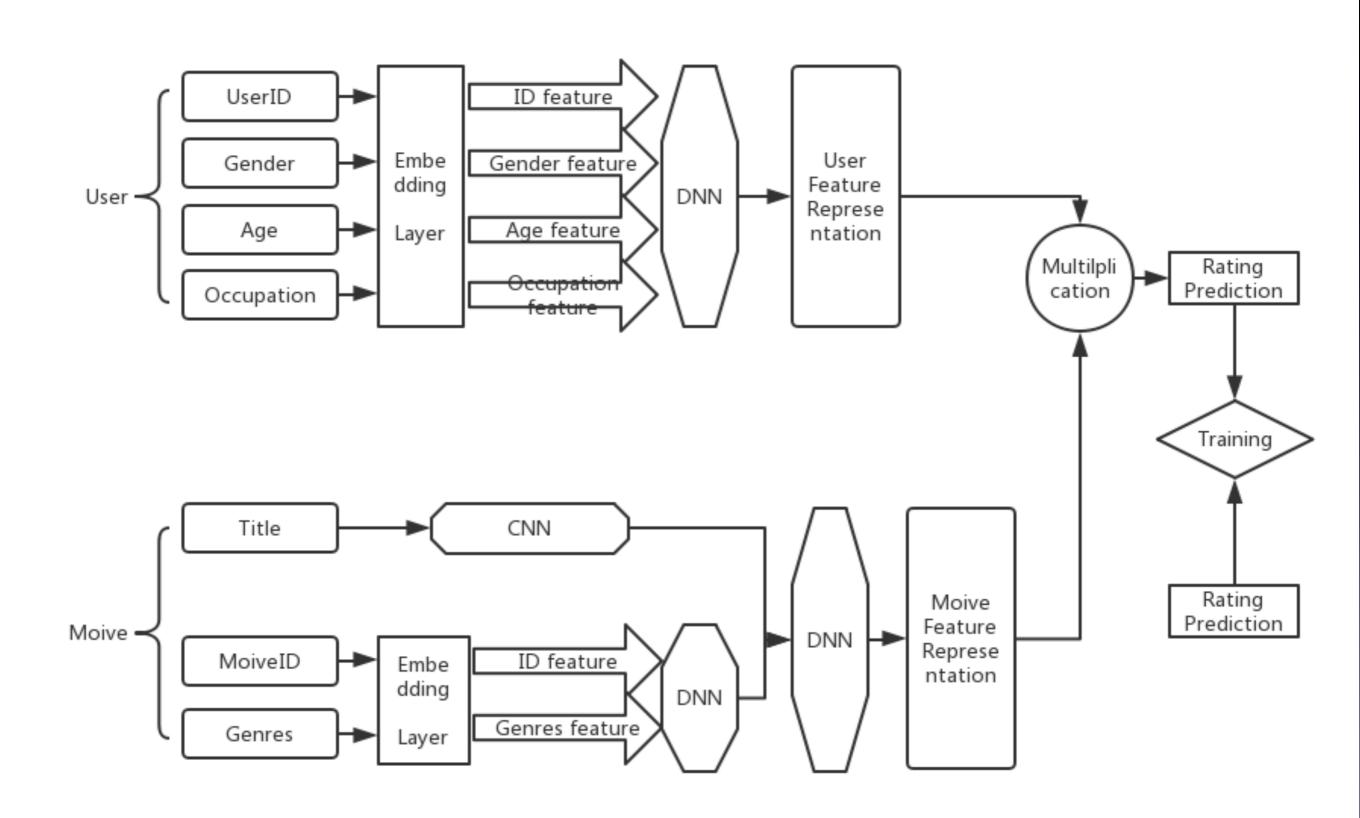
Movie Recommendation System

- 1. Overview
- 2. Dataset and Data processing
- 3. Neural Networks
- 4. What can it do

https://github.com/YHfeather/Movie_Recommendation_System

Overview



Tools





Python 3.5

TensorFlow 1.7.0

Dataset

movielens

6,040 users 3,900 movies 1,000,209 ratings

users.dat

UserID, Age, Occupation, Zip-code...

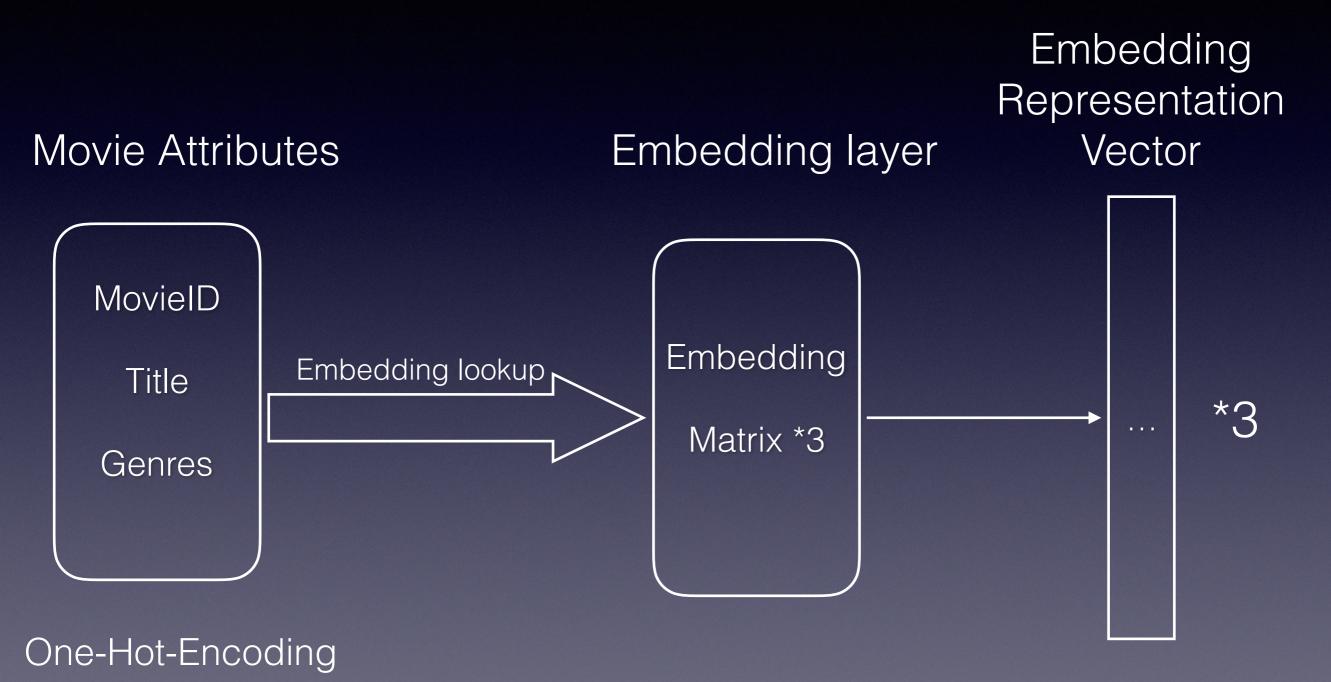
movies.dat

MovieID, Titile, Genres

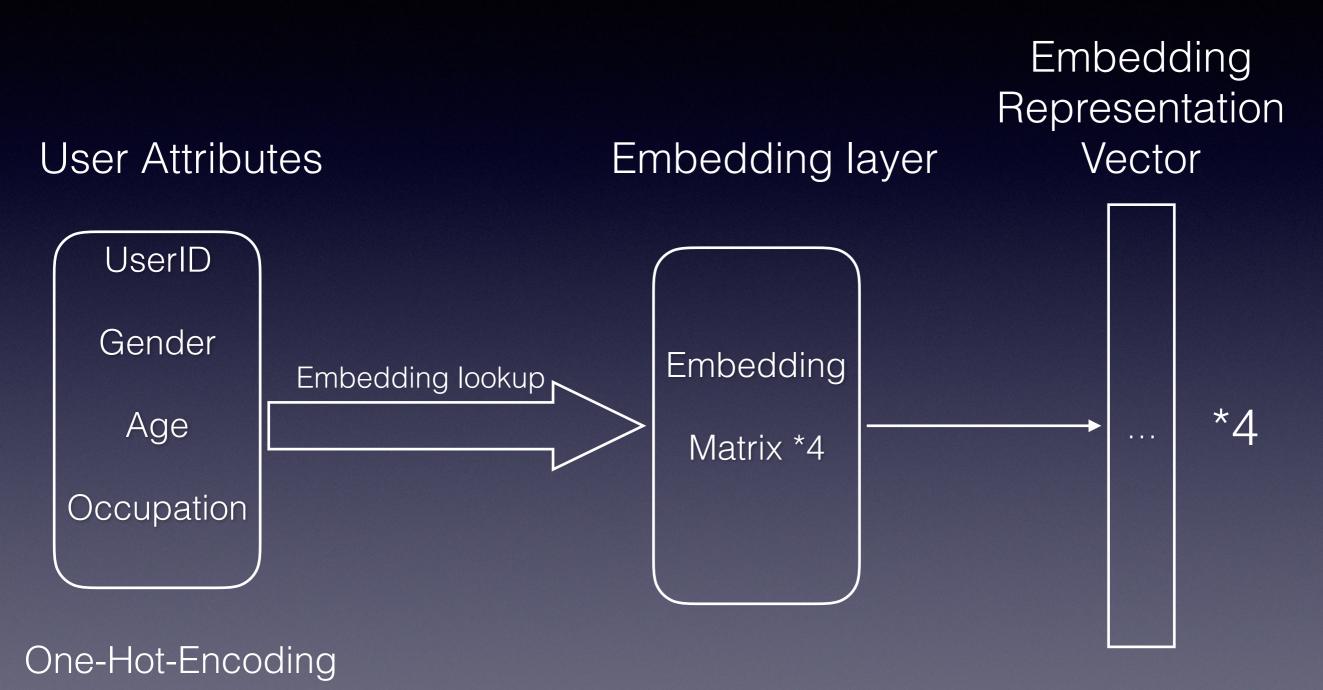
ratings.dat

UserID, MovieID, Ratings (1 ~ 5)

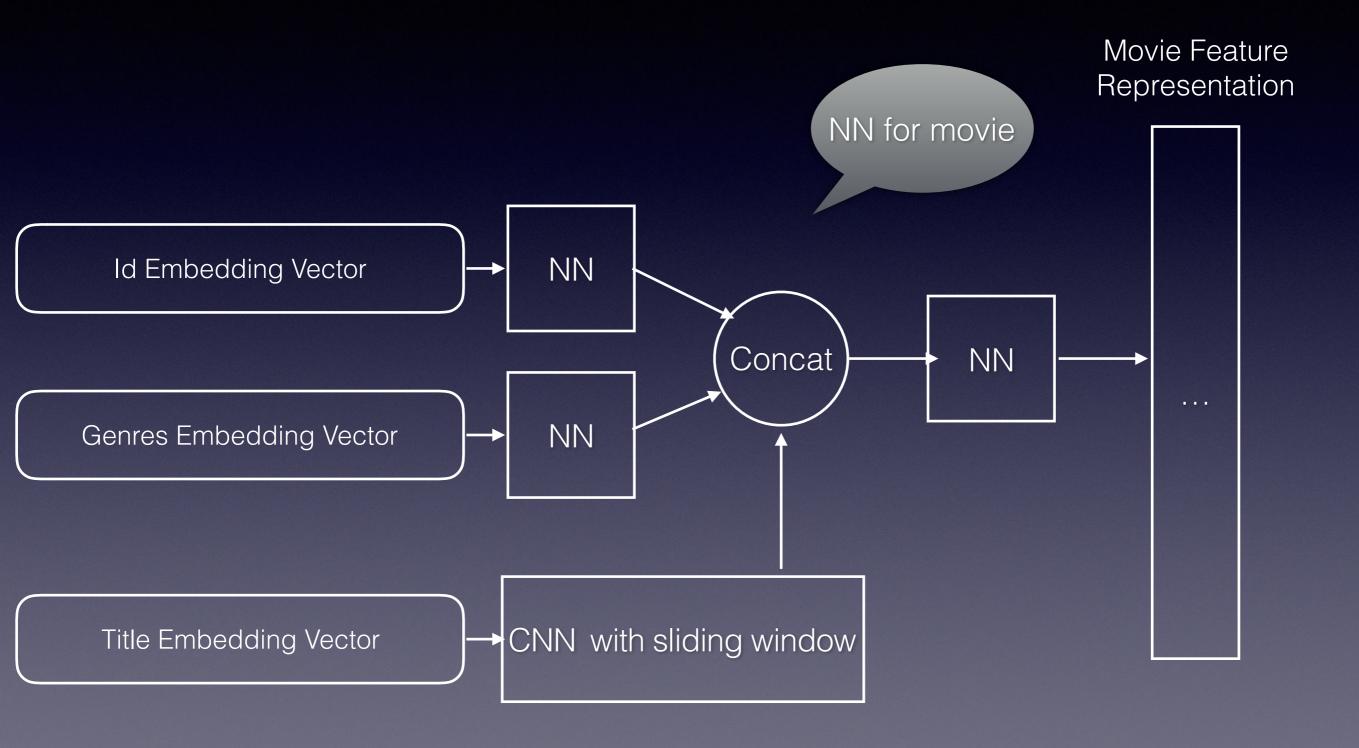
Movie Feature Processing



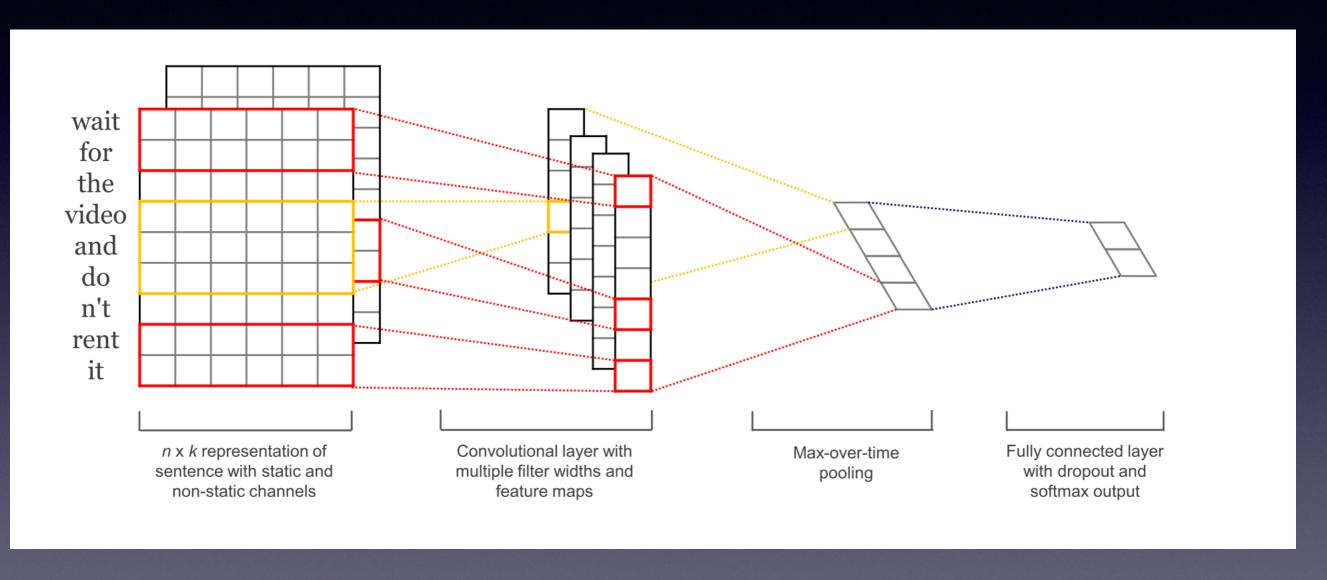
User Feature Processing



Neural Networks



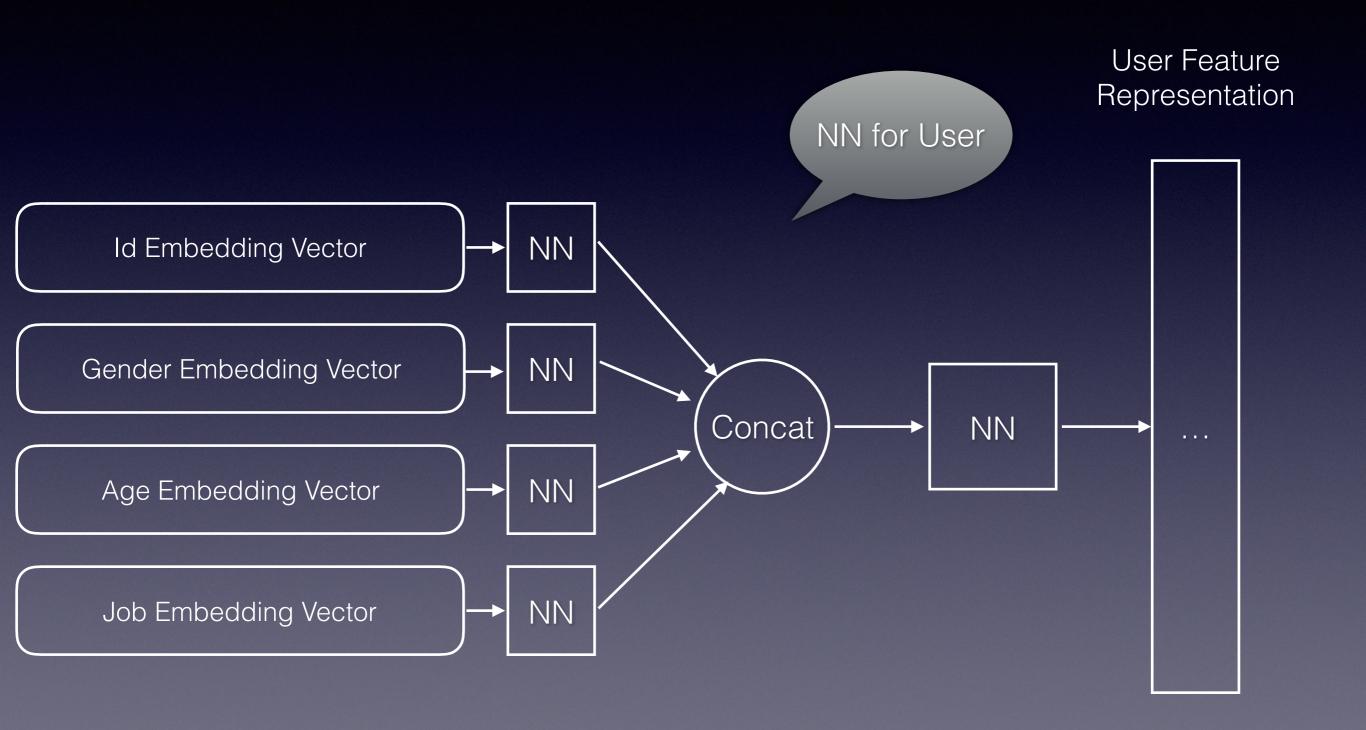
Neural Networks



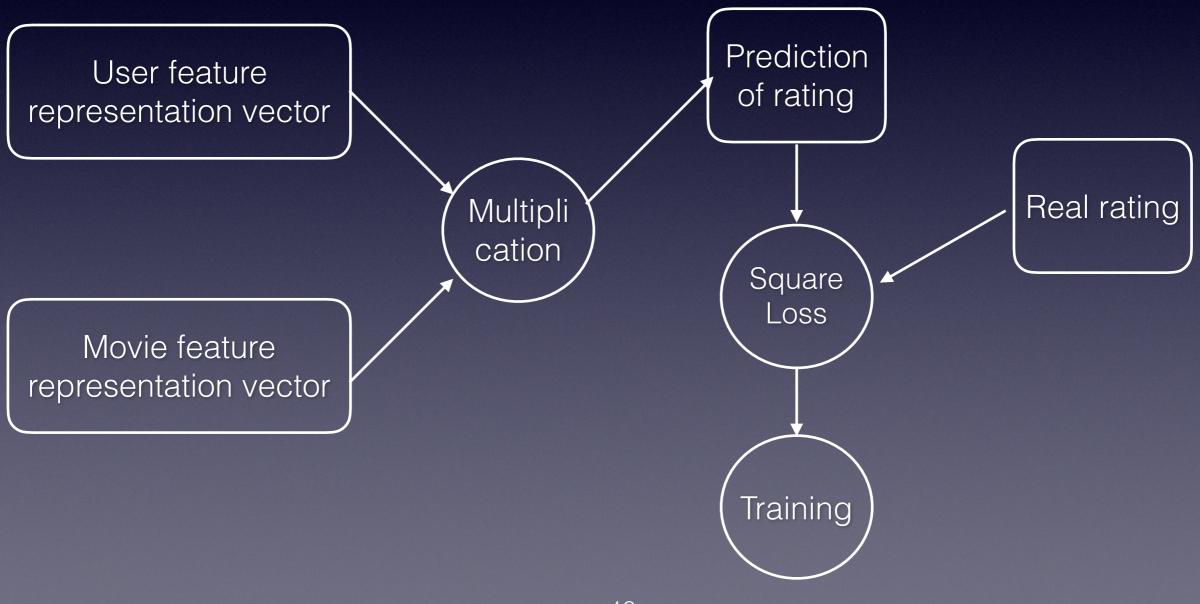
CNN for Text[1]

[1] Y Kim 2014 EMNLP "Convolutional Neural Networks for Sentence Classification"

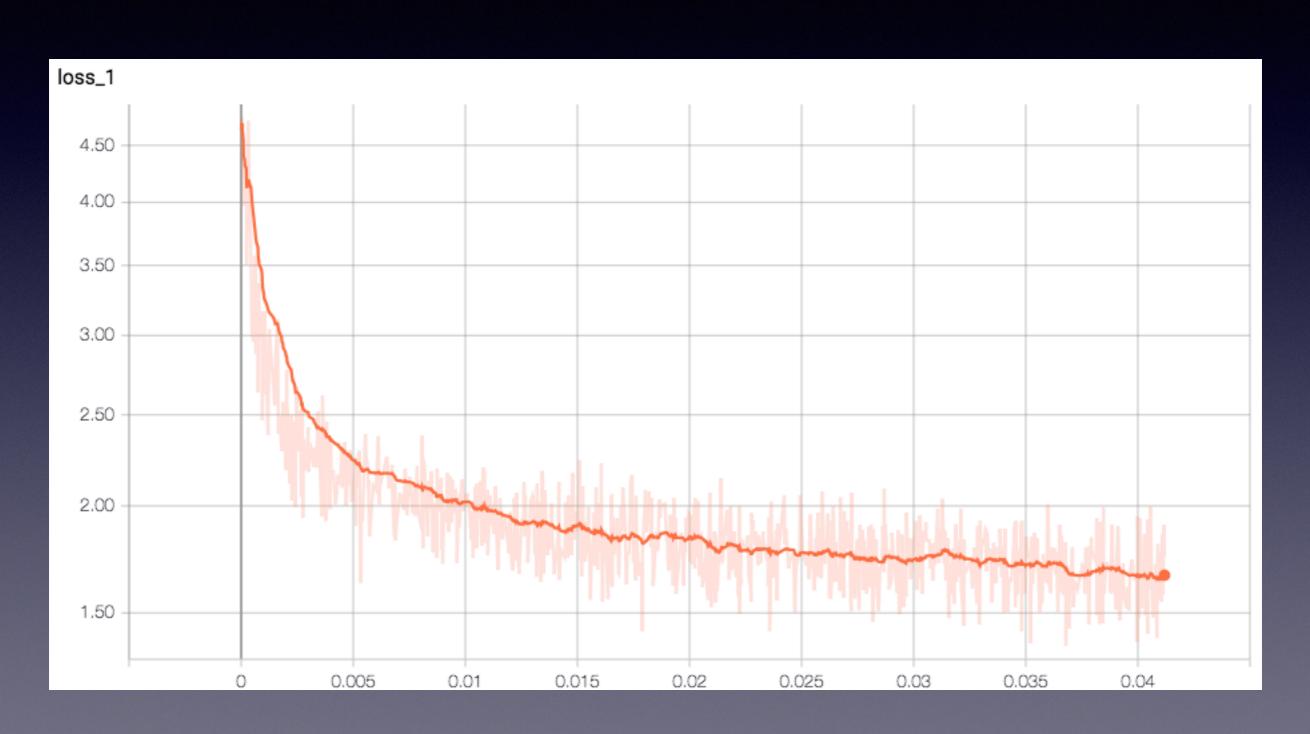
Neural Networks



Training Step



Training Loss



What can it do?

