PCML CS-433: Recommender System

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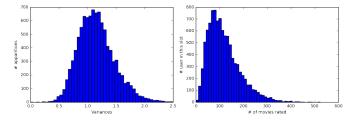
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Abstract—

I. DATA DESCRIPTION

The data represent ratings from 10'000 users on 1'000 movies in an integer scale from 1 to 5. This scale represent the number of *stars* given by the users, 1 being the lowest grade and 5 the best.

The training set used to train our algorithm contains 1'176'952 ratings which represent around 12% of possible filled ratings. An other 1'176'952 ratings are hidden from us and must be predicted by our recommender algorithm.



- (a) Distribution of variances of ratings per user.
- (b) Number of movies rated per user.

Figure 1: Statistical description of data

II. DATA PREPROCESSING

III. MODEL SELECTION

IV. RESULT

V. DISCUSSION