LIST OF NOTATIONS

Symbols	Definition
$A(B,a)$	Autoencoder Function
β	Regularization Weight
B	Weight Matrix
a	Bias Vector
$r(g,i,j)$	Rating given by user i in group g for item j
$Pr(g,i,j)$	Predicted rating for user i in group g for item j
$APr(g,i,j)$	Aggregated prediction rating for group g for item j
G	User Group
r_{ui}	Rating assigned to item i by user u
y_i	Predicted rating for item i
r_i	Original rating of item i