LIST OF NOTATIONS

| Symbols | Definition |
|--------------|---|
| A(B,a) | Autoencoder Function |
| β | Regularization Weight |
| В | 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 |