SKILL AND JOB RECOMMENDER APPLICATION
PROBLEM STATEMENT

1. The recommender system has one of the recommendation system called content based recommendation system where it has some disadvantages such as one way recommendation, no relational aspects are included also cold-start problem.

2. Problems also such as scalability, ramp-up, overspecialization and data sparsity occurs in recommending the jobs while the user or job seeker searching for the particular positions.

3. To curb the problem of cold-start, we can use the demographic information of the user from social networking sites or through the sign up page of the website. Also, we can use hybrid approach, that is to use collaborative filtering with demographic recommending approach to suggest items to a new user.

4. The problem of Sparsity can be resolved using hybrid recommendation technique. Instead of using content based alone we can combine the content based and collaborative technique together which will result as a solution of Sparsity. The amount of information people has in common can be increased by using the attributes of an item instead of the item itself.

5. The problem of overspecialization can be overcome with the neighbourhood based collaborative filtering technique. For the probabilistic neighbourhood selection phase, we use a method for weighted sampling of k neighbours that takes into consideration the similarity levels between the user/items and candidate neighbours.