Ideation Phase
Literature
Survey

Date	9 September 2022
Team ID	PNT2022TMID04959
Project Name	Skill and Job Recommender
Maximum Marks	4 Marks

Survey Performed:

Reference 1	Title	Job Recommendation based on Job Seeker Skills: An Empirical Study
	Authors	Jorge Valverde-Rebaza et.al.
	Journal Detail	2018 - Department of Scientific Research, Visibilia, SP, Brazil

Inference from reference 1 :

Algorithm used:

Term Frequency-Inverse Document Frequency (TF- IDF) & word2vec,Continuous Bag- of-Words (CBOW) and Skip-gram

Merits:

Word2Vec-SkipGram score-0.590 Precision-0.814
ME-0.96

Demerits:

Less accuracy in the correctness of user data.

Reference 2	Title	Toward the next generation of recruitment tools: An online social network- based job recommender system
	Authors	M Diaby, E Viennet, and T Launay.
	Journal Detail	2013 Advances in Social Networks Analysis and Mining, ASONAM

Inference from reference 2 :

Algorithm used:

Work4,Support vector Machine

Merits:

For data processing two types of data are used:input- interaction data (user's own data) and social connections data (user's friends data)

Demerits:

Sensitive contents of user are prone to vulnerability.

Reference 3	Title	Matching resumes and jobs based on relevance models
	Authors	Xing Yi,James Allan,W. Bruce Croft
	Journal Detail	2007 Special Interest Group on Information Retrieval(SIGIR

Inference from reference 3:

Algorithm used:

Structured Relevance Models (SRM)

Merits:

Relevance model makes matching process easier

Demerits:

Only for modeling and retrieving semi- structured documents

Reference 4	Title	Collaborative filtering based online recommendation systems
	Authors	Basit Mehmood Khan et.al.
	Journal Detail	2017 International Conference on Information and Communication Technologies (ICICT)

Inference from reference 4 :

Algorithm used:

Collaborative filtering are item based and user based approaches

Merits:

CF algorithms are classified as memory- based approaches and model-based approaches and compared

Demerits:

Interest of mobile users may lead to the rejection of skilled candidate

Reference 5	Title	Job Recommendation System Using Profile Matching and Web- Crawling
	Authors	Deepali V Musale et.al.
	Journal Detail	2016 International Journal of Advance Scientific Research And Engineering Trends

Inference from reference 5 :

Algorithm used:

Semantic matching, tree-based knowledge matching and query matching.

Merits:

On campus recruitment process made easier using web crawling

Demerits:

Dataset is taken only from reputed institution and guarantee to employ all students is less.

Conclusion :

Hence from the above references now we would be able to construct a skill and job recommender system.