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Project Deliverable 2 – Preliminary Results

1. Problem Statement

This project will attempt to recommend jobs to people given their prior applications, demographic information and work history.

2. Data Preprocessing

I will be using the Job Recommendation Challenge Dataset from Kaggle due to its completeness (i.e. job titles, users, users' background). In fact, it was not easy to find data in this sector since a lot of these data are privately owned by employment-oriented companies.

3. Machine Learning Model

[Coming Soon]

4. Preliminary Results

[Coming Soon…]

5. Next Step

I will further research for different models to come up with some more interesting results. To do so, I will be investigating different papers in the reference.

References:

- **Chen Ma**, Peng Kang and Xue Liu, "**Hierarchical Gating Networks for Sequential Recommendation**", in the 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD 2019** Research Track, acceptance rate: ~170/~1200=14%), Anchorage, USA, Aug. 2019.
- **Chen Ma**, Peng Kang, Bin Wu, Qinglong Wang and Xue Liu, "**Gated Attentive-Autoencoder for Content-Aware Recommendation**", in the 12th ACM International Conference on Web Search and Data Mining (**WSDM 2019**, acceptance rate: 84/511=16%), Melbourne, Australia, Feb. 2019.