Evaluation of PG Course Capstone Project – Job O Recommendation Model – Content Based Filtering

Alisha, Sundeep, Treesa, Raminderjit, Komalpreet

HUMBER

Humber North Campus, 205 Humber College Blvd, Etobicoke, ON M9W 5L7, Canada

Introduction

Capstone project is a final semester course where real world project is offered to group of student from industry professionals. Our project Job O recommendation model intends to create recommendation engine that can Recommend best jobs to employees based on job's skill rating, distance of potential employee from work location and either way around as well that is to recommend best employees to a company on the basis of employee's skills, ratings, previous experience using machine learning concepts.

Aim & Methods: The Scope includes the aspects of the recommendation engine as below:

1. Data Collection (i.e., data will be provided by Job-O explicitly).
2. Data Storage (No Sql)
3. Data Filtering: Best filtering algorithm to be chosen after evaluating
4. Machine learning - Content Based filtering model using cosine similarity algorithm
5. Tools and Libraries
   - ❑ Jupyter Lab installed on local machine and using Python programming language

Result: We are able to generate job recommendations for users

User Id	Title	Recommednations
123c163c-3543-40ec-b907-b1e1bd39dfad	Corporate Metrics Analyst	Corporate Metrics Analyst Corporate Research Consultan
b011a125-eab9-45e2-b80d-a2fe226c22e1	Forward Interactions Specialist	Product Web Representative Human Marketing Director Legacy Solutions Architect
cffac27b-b323-4530-a2bc-6b3110e41b54	Legacy Solutions Architect	Legacy Solutions Architect District Directives Manager Legacy Operations Technician
2b18301e-5069-486b-a9b6-4d1d706f4bbc	Customer Metrics Analyst	Customer Infrastructure Analyst Corporate Metrics Analyst
c96b5519-00bf-44d6-adee-03c824fb568c	Internal Solutions Agent	Lead Response Strategist Product Interactions Assistant
46dc73c9-1664-48c3-830c-0d434fb72125	Forward Intranet Manager	Global Configuration Associate Principal Creative Designer International Security Associate
e27e9023-c365-4469-8f72-3121efc2c12e	Customer Accountability Agent	Internal Paradigm Administrato District Tactics Assistant
6d9daf03-6e84-4919-a7c5-53da5adbc4c2	Direct Quality Architect	Direct Quality Analyst Direct Quality Designer Central Accountability Administrator
feae463a-1773-40f5-bccf-1fac55da81ce	National Division Orchestrator	National Division Orchestrator Dynamic Mobility Strategis
d3c45d80-d634-4119-8264-83569f1191fe	Global Configuration Associate	Global Configuration Associate

Conclusion: For the userid we are able to generate job recommendations and our results are 65 – 75% accurate.