**CHAPTER 1**

**INTRODUCTION**

The highly competitive and dynamic nature of the job market as well as personal preferences and goals lead individuals to change their jobs at some point in their lives. Moving to a new job, however, is not an easy decision, which may depend on many factors, such as salary, job description, and geographical location. Making successful job transitions is essential for a successful professional career. In this work, we build an automated system that can recommend jobs to people based on their past job histories in order to facilitate the process of selecting a new job. We believe that such a system can successfully exploit the job transitions performed by other employees. That is, we propose recommending jobs to people based on inference from the ob transition patterns observed in the past. These patterns may involve features extracted from the business profiles of employees (e.g., years of experience, educational degree, job title), the profiles of institutions1 (e.g., industry, type, size), and the job transitions themselves (e.g., frequency of transitions between jobs, average time spent in a job).

The framework we propose is based on K means clustering. Given an employee’s past job history, the objective of the learning model is to accurately predict the next institution that the employee will move to. The predicted institution can then be recommended to the employee as the next step in his/her career. To evaluate our framework, we use a large sample of job transitions extracted from the publicly available employee profiles in the Web. From this sample, we extract a number of features that we use to train and test our machine learning model. The results of our experiments demonstrate that the transition of an employee to an institution can be quite accurately predicted, significantly improving over a baseline predictor that always predicts the most frequent institution in the data. Our results indicate that the most important feature in predicting a job transition is the current institution of the employee.

**CHAPTER 2**

**LITERATURE SURVEY**

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**CHAPTER 3**

**SYSTEM ANALYSIS**

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**CHAPTER 4**

**SYSTEM ARCHITECTURE**

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**CHAPTER 5**

**IMPLIMENTATION AND RESULT**

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**CHAPTER 6**

**CONCLUSION AND FUTURE SCOPE**

The highly competitive and dynamic nature of the job market as well as personal preferences and goals lead individuals to change their jobs at some point in their lives. Moving to a new job, however, is not an easy decision, which may depend on many factors, such as salary, job description, and geographical location. Making successful job transitions is essential for a successful professional career. In this

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