Career Transition Insights Using Data Mining

We explore automatic large, scale analysis of resumes and professional profiles to extract insights into career transitions. Resumes and professional profiles typically highlight educational background (degrees, major and universities) and professional positions (titles and companies). We hope to extract several features associated with each position and analyze these features using data mining techniques (such as clustering and nearest neighbor searches) to derive patterns in career transitions. Using these insights, we plan to build a system that shares insights and makes recommendations to candidates considering career transitions. Insights/recommendations provided by such a system might include:

• Recommendations on the most likely next career move (prediction on next transition)
• Proven (often-traveled) paths to a given career goal
• Profile information (insights on transitions into and transitions out of) for a given position