



Searching for Information Online

Using Big Data to Uncover the Concerns of Potential Army Recruits

Salar Jahedi, Jennie W. Wenger, Douglas Yeung

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This report assesses empirical applications of web search data and discusses the prospective value such data can offer Army recruiting efforts. The authors examine three different tools—Google Trends, Google AdWords, and Google Correlate—that can be used to access and analyze readily available, anonymous data from Internet searches related to the Army and to Army service.



RESEARCH QUESTIONS

- How have Army-related searches changed over time and across locations?
- What sorts of questions and concerns are prevalent in Army-related searches?
- How is the number of relevant searches related to the number of people who enlist?



KEY FINDINGS

- Google search queries can be used to better understand how interest in military careers has evolved over time and geographic location.
- It is possible to use these tools to identify the chief Army-related concerns that potential recruits have, including the qualifications for, procedures for, or benefits of enlisting.
- It is possible to predict with reasonable accuracy what individuals were searching for months before or after searching for Army-related terms.
- Including Google Trends terms in a model of factors influencing the number of Army accessions increases the predictive power of the model.

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RECOMMENDATIONS



- Further research is required to better understand ways of using Internet search data to inform Army recruiting initiatives, with the eventual goal of drawing causal inferences and making accurate predictions.
- One promising path involves combining the Google search data with a secondary data source, such as the U.S. Census Bureau, which has information about the percentage of the military-aged population within a geographic region.
- In the same way that companies such as Amazon and Netflix recommend products or movies to individuals based on the behavior of similar shoppers, it is possible for the Army to share queried information with individuals based on what other similar individuals find most useful.

