Data Analytics Position Description Analysis: Skills Review and Implications for Data Analytics Curricula

Queen E. Booker
Queen.booker@metrostate.edu
Department of Management Information Systems
College of Management
Metropolitan State University
Minneapolis MN. 55403, USA

Carl M Rebman, Jr.
carlr@sandiego.edu
Knauss School of Business
Department of Supply Chain, Operations, and Information Systems
University of San Diego
San Diego, CA 92110, USA

Loreen Powell
Ipowell@maryu.marywood.edu
College of Creativity and Professional Studies
School of Business and Global Innovation
Marywood University
Scranton, PA 18509, USA

Hayden Wimmer hwimmer@georgiasouthern.edu Department of Information Technology Georgia Southern University Statesboro, GA 30460, USA

Jennifer Breese jzb545@psu.edu IST and Cybersecurity Analytics and Operations Pennsylvania State University McKeesport, PA 15132

> Steve Levkoff slevkoff@sandiego.edu Knauss School of Business Department of Economics University of San Diego San Diego, CA 92110, USA

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Abstract

The focus of this study was an assessment of skill requirements for data analytics positions to understand data analysis employment expectations for new graduates, and to highlight issues relevant to curriculum management in university degree programs. The analysis of 786 job postings involved the exploration of domain-related and soft skills as well as degree requirements. Soft skills, often referred to as people skills, comprised the largest part of the results (11 of the top 21 skills). Results revealed, the most frequent soft skills were related to communication, and teams or teamwork. The most frequent domain skills were related to visualization, data cleaning, data extraction and programming. Implications for curriculum based on results are discussed, and suggestions for future research are provided.

Keywords: curriculum, analytics, Information Systems, job description analysis, skills analysis

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