

RE: RESEARCH RATIONALE STATEMENT

To Whom It May Concern

Boston University Metropolitan College

Professor Nakul Padalkar

February 17, 2025

Chosen Topic of Research:

Business Analytics, Data Science, and Machine Learning Trends

Rationale:

Firstly, on behalf of all of us in Group 1 - welcome.

After careful consideration, we have collectively chosen to focus our research efforts on *Business Analytics, Data Science, and Machine Learning Trends*. The primary motivation for selecting this topic is that, in the long run, a deeper understanding of these areas will significantly strengthen our professional expertise and career prospects. Among the various research options available, we believe this theme holds the greatest potential for long-term impact as we pursue careers in the business analytics and data science disciplines.

Our goal is to conduct thorough and insightful research that provides a reliable understanding of the industry's landscape at large. As is outlined in the assignment description, we aim to explore the most *in-demand skills*, examine *how job descriptions have evolved* in recent years, identify the *leading employers* of both business analysts and data scientists, and to assess the *career outlook* of these roles.

If approached strategically, the exploration will serve as a valuable resource, providing knowledge we can revisit and build upon throughout our careers - even as the industry continues to evolve.

Sincerely,

Team 1

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