

# Sample Technical Report One

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## Paper 1

The first paper is an article that appeared in 2016 in the AIChE Journal.

### Reference

The citation containing the complete information for the first paper that would appear in the reference section of the final report is provided below.

Beck, D. A., Carothers, J. M., Subramanian, V. R., & Pfaendtner, J. (2016). Data science: Accelerating innovation and discovery in chemical engineering. *AIChE Journal*, 62(5), 1402–1416. <https://doi.org/10.1002/aic.15192>

### Annotation

The annotation section will provide a detailed description of how the three criteria for this report are satisfied.

#### *Criterion 1 - Statistical Topic and Textbook Chapter*

Two major topics from the Engineering Statistics textbook are discussed in this paper. The first topic is visualization of data which is introduced in Chapter Six - Descriptive Statistics. The second statistical topic discussed in Paper 1 is modeling which is discussed in Chapter 11 - Simple Linear Regression and Correlation and Chapter 12 - Multiple Linear Regression.

#### *Criterion 2 - Engineering Problem Addressed*

This paper targeted the general field of Chemical Engineering and did not focus on any specific field of specialization within Chemical Engineering

#### *Criterion 3 - Relation to Major*

As a Chemical Engineering student, I am interested in the broad field of Chemical Engineering and how Chemical Engineers can be more effective by using modern statistical techniques like Data Science.

## Paper 2

**Continue following the same pattern for papers two and three. Make sure to submit PDFs of all three papers along with this report.**