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Revisiting the Two Cultures in Statistical Modeling and Inference as they relate to the Statistics Wars and Their Potential Casualties

The discussion places the two cultures, the model-driven statistical modeling and the algorithm-driven modeling associated with Machine Learning (ML) and Statistical Learning Theory (SLT) in a broader context of paradigm shifts in 20th-century statistics, which includes Fisher's model-based induction of the 1920s and variations/extensions thereof, the Data Science (ML, STL, etc.) and the Graphical Causal modeling in the 1990s. The primary objective is to compare and contrast the effectiveness of different approaches to statistics in learning from data about phenomena of interest and relate that to the current discussions pertaining to the statistics wars and their potential casualties.