OFFICE OF THE SECRETARY OF DEFENSE
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OPERATIONAL TEST
AND EVALUATION

22 August 2022
To Whom It May Concern
Subject: The Automaton General-Purpose Data Intelligence Platform

The Automaton general-purpose data intelligence platform abstracts data analysis out to a high level and automates many routine analysis tasks while being highly extensible and configurable - enabling complex algorithms to elucidate mission-level effects. Its features enable analysts to build charts and tables, calculate aggregate summary statistics, group data, filter data, pass arguments to functions, generate animated geospatial displays for geospatial time series data, flatten time series data into summary attributes, fit regression models, create interactive dashboards, and conduct rigorous statistical tests. All of these extensive analysis capabilities are automated and enabled from an intuitive configuration file requiring no additional software code. Analysts or software engineers can easily extend Automaton to include new algorithms, however. I founded and lead Automaton's development at Johns Hopkins University Applied Physics Laboratory to support an ongoing military mission and perform statistically rigorous analyses that use Bayesian-inference-based Artificial Intelligence to elucidate mission-level effects. Automaton has unfettered Government Purpose Rights and is freely available. Now that I serve as the Director, Operational Test and Evaluation's (DOT&E) Chief Scientist, I am responsible for implementing a good deal of DOT&E's strategy. One such thrust entails automating data analyses for Operational and Live Fire Test & Evaluation as well as developing data analysis techniques and technologies targeting mission-level effects; I will continue to use, extend, demonstrate/train on, and freely share Automaton to accomplish these goals and collaborate with others to drive our Department's shared mission forward however I can.

For additional information or demonstration, please feel free to contact me.

Very Respectfully,

Jeremy S. Werner, Ph.D., ST (SES Equivalent)
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