An Unclassified Cloud Environment for Mission
NSA Collaborates with AlgorithmHub

Being able to save time, money, and effort while achieving mission can be easily classified as a "win-win situation" for everyone involved. Fortunately, researchers at NSA Hawaii (NSAH) are doing just that.

NSAH is training machine learning models to further develop algorithms that will generate a topical list and, eventually, visual images of words. The goal is to provide users with a topical word list that can quickly assign a meaning and perspective to foreign language content, without having any prior knowledge of that language. NSAH discovered startup AlgorithmHub at a speed networking event and quickly saw potential in what the company had to offer.

The NSA Technology Transfer Program (TTP) finalized a Cooperative Research and Development Agreement (CRADA) with AlgorithmHub (www.algorithmhub.com) to apply their data science cloud compute environment to NSA's unclassified machine learning research problems. The AlgorithmHub partnership allows NSA researchers to deploy, experiment, and share their data science algorithms in a cloud environment without lengthy delays and costs associated with provisioning and maintaining virtual machines. The partnership has also enabled AlgorithmHub to improve their services. John Bay, CEO of AlgorithmHub, says, "Through our CRADA with NSA, we have enhanced efficiency and effectiveness in evaluating machine learning algorithms for topic identification. These new features are not only valued by data scientists at NSA, but also with AlgorithmHub customers. The CRADA has provided us critical feedback and validation needed to continue to evolve the AlgorithmHub platform into an innovative, commercially viable product."

After a highly successful data science workshop with Massachusetts Institute of Technology (MIT) and the Institute of Defense Analysis (IDA), NSA hosted a topic modeling cohort, subsequently extending testing and evaluation time in the AlgorithmHub environment. This effort is developing a model for continuing collaboration for data analytics development across the enterprise and with other researchers in academia and industry.

About the NSA TTP
The NSA TTP establishes partnerships between NSA and industry, academia, and other government agencies to help accelerate mission, advance science, foster innovation, and promote the growth and commercialization of technology originally created for Agency mission.

Questions? Contact NSA's Technology Transfer Program
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