Privacy-Preserving Data Collaboration Methods that Accelerate Healthcare Innovation

To improve patient outcomes and lower costs, healthcare organizations (HCOs) are looking to advances in the field of artificial intelligence to spur innovation. Confidential computing platforms (CCPs), with memory encryption and privacy-preserving analytics, can support HCOs by helping protect data at rest and data in use. BeeKeeperAI provides a secure way for algorithm owners to compute on the real-world data they need to achieve generalizability while the data remains in control of the data steward at the originating institution. BeeKeeperAI has worked to validate three different clinical models using an Intel-based CCP, including a hemodynamic stability index, a COVID-19 detection tool, and a treatment stratification tool for diabetic retinopathy, but the possibilities for different clinical algorithms are endless.

> "[Confidential computing platforms] allow us to reduce the cycle time to validate an algorithm in half. It also cuts the costs almost in half. Those kinds of savings allow us train, validate, and bring to market generalizable algorithms much faster. And, it will only get faster and less costly as the technology and processes underlying CCP mature."
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> **MaryBeth Chalk, Co-founder and Chief Commercial Officer, BeeKeeperAI, Inc.**

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