Machine Learning for Cybersecurity Needs Two-Way Explainability

November 22, 2023—Machine learning (ML) seems a natural fit for data-rich cybersecurity operations, but a lack of explainability—from ML models to humans and the other way around—is standing in the way. A new SEI Blog post illustrates both directions of explainability and recommends the research needed to advance cybersecurity ML.

“On a very basic level, explainable cybersecurity ML can be achieved now, but there are opportunities for significant improvement,” wrote Jeffrey Mellon and Clarence Worrell in Explainability in Cybersecurity Data Science. “Significantly strengthening the human-machine team through explainable cybersecurity ML is one of the biggest steps we can take to encourage broader adoption of data science into cybersecurity organizations and systems.”

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