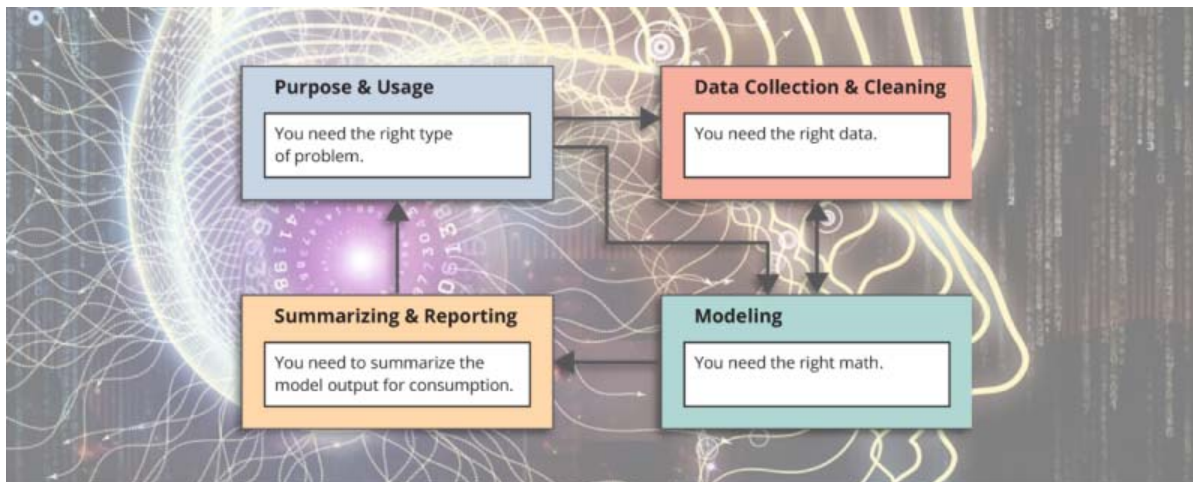


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Carnegie Mellon University Software Engineering Institute



SEI Bulletin — December 11, 2019

Blog Posts Highlight AI Engineering, Machine Learning Cybersecurity Guidance

A pair of new blog posts highlights the SEI's recent work in artificial intelligence (AI) and machine learning (ML). "[AI Engineering: 11 Foundational Practices for Decision Makers](#)," drawn from a [white paper](#) of the same name, presents 11 AI practices developed to lay the groundwork for establishing AI engineering as a discipline. "We designed these practices to help decision makers balance short-term and long-term needs of an AI engineering project," said the blog's authors.

"[Machine Learning in Cybersecurity](#)," based on an earlier [report](#), summarizes the seven questions that decision makers who want to use AI or ML tools as solutions in cybersecurity should ask of ML practitioners to adequately prepare for implementing them. The post overviews the relevant parts of an ML lifecycle—selecting the right problem, the right data, and the right math and summarizing the model output for consumption—as well as questions that relate to those areas of focus.

Read "[AI Engineering: 11 Foundational Practices for Decision Makers](#)"

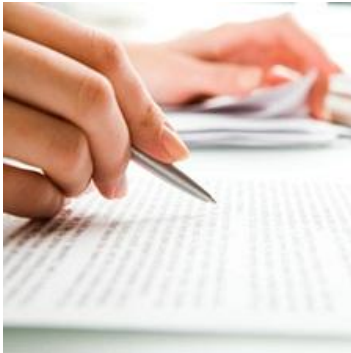
Read "[Machine Learning in Cybersecurity](#)"

SEI NEWS

- [SEI Team Wins 2019 ISLA Award](#)
- [SATURN Conference on Software Architecture Opens Call for Submissions](#)
- [Forrest Shull and Grace Lewis Elected to IEEE Computer Society Leadership](#)

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SEI Publications

- [Designing Trustworthy AI: A Human-Machine Teaming Framework to Guide Development](#)
- [Component Mismatches Are a Critical Bottleneck to Fielding AI-Enabled Systems in the Public Sector](#)
- [Prioritizing Vulnerability Response: A Stakeholder-Specific Vulnerability Categorization](#)



SEI Blog

Recent posts

- [AI Engineering: 11 Foundational Practices for Decision Makers](#)
- [Prioritizing Vulnerability Response with a Stakeholder-Specific Vulnerability Categorization](#)
- [System Resilience Part 2: How System Resilience Relates to Other Quality Attributes](#)
- [Machine Learning in Cybersecurity](#)



SEI Podcast Series

Available in video and audio formats

- [Women in Software and Cybersecurity: Kristi Roth](#)
- [Human Factors in Software Engineering](#)
- [Women in Software and Cybersecurity: Anita Carleton](#)

SEI Events



Featured events

- [Artificial Intelligence for Humanitarian Assistance and Disaster Response Workshop](#)
- [FloCon 2020](#)
- [SATURN 2020](#)



SEI Videos

Short videos of SEI work from our experts

- [Future Reach Conversation: Countering Adversarial Operations Made Possible by AI](#)
- [Summarizing and Searching Video \(2019\)](#)
- [Integrating Safety and Security Engineering for Mission-Critical Systems](#)



SEI Training

- [Assessing Information Security Risk Using the OCTAVE Approach](#)
February 4-6, 2020 (SEI Arlington, Va.)
- [Insider Threat Analyst](#)
February 11-13, 2020 (SEI Arlington, Va.)
- [Hands-on Threat Detection and Hunt](#)
February 25-28, 2020 (SEI Arlington, Va.)



SEI Careers

Featured opportunities

- [Program Development Manager, Intel](#)
- [Senior Penetration Testing Engineer](#)
- [Machine Learning Research Scientist](#)
- [All Current Opportunities](#)

About the SEI Bulletin

The SEI Bulletin is a biweekly newsletter designed to keep you up to date on SEI news, events, research, and other matters of interest to the SEI community. We hope you find the SEI Bulletin useful and informative.

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Do you have a story about how an SEI technology has positively affected your team or organization? If so, the SEI would like to hear about it. Send a short summary of your success to info@sei.cmu.edu, and you could be featured in a future issue of the SEI Bulletin.



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