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SAGE: A National Cyberinfrastructure for AI@Edge Computing

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From the sensor to the laptop, from the telescope to the supercomputer, from the microscope to the database, scientific discovery is part of a connected digital continuum that is dynamic and fast. In this new digital continuum, Artificial intelligence (AI) is providing tremendous breakthroughs, making data analysis and automated responses possible across the digital continuum. SAGE is a National Science Foundation project to build a national cyberinfrastructure for programable edge computing. This new edge computing programming framework gives scientists a new tool for exploring the impacts of global urbanization, natural disasters such as flooding and wildfires, and climate change on natural ecosystems and city infrastructure.

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