



Award #: 1740151

DEEPFORGE: A MACHINE LEARNING GATEWAY FOR SCIENTIFIC WORKFLOW DESIGN

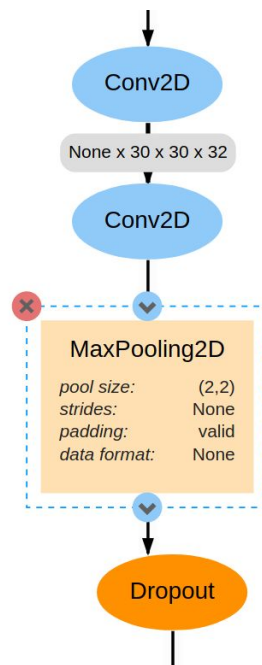
Brian Broll (Co-PI), Akos Ledeczki (PI), Umesh Timalsina, Peter Volgyesi, Tamas Budavari
Vanderbilt University, Johns Hopkins University

Goal: Develop a Software as a Service platform for applying deep learning within diverse scientific domains that integrates with existing cyberinfrastructure.

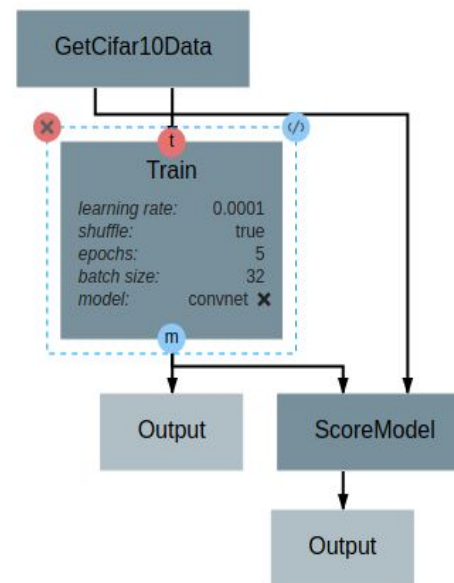
Designed to promote **simplicity, collaboration,** and **reproducibility** by:

- Rich visual editors for pipeline and neural network design
- Code editors for creating custom operations
- Collaborative editing support
- Integration with existing cyberinfrastructure
- Data provenance and integrated version control

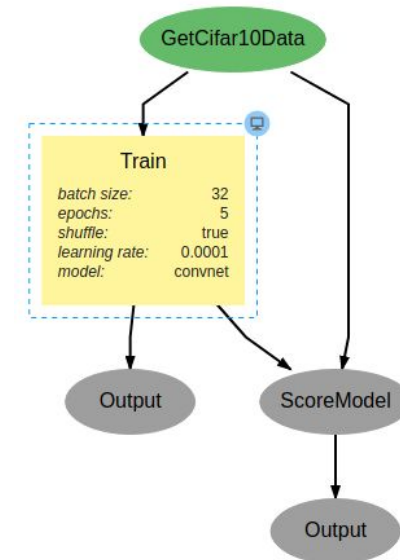
For more information, check out:
<https://deepforge.org>



Design your neural networks



Create training/evaluation pipelines



Execute pipelines on your own infrastructure!