ML Movie Night: A Pilot Machine Learning Course for High-School Students

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Evan Jaffe, Scientific Applications Engineer
The Ohio Supercomputer Center
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- **Goal**: Introduce high-school students to ML on HPC in compressed format

- **Approach**: Jupyter notebook running on Open OnDemand, text classification with scikit-learn + text generation

- **Context**: Summer Institute at the Ohio Supercomputer Center (OSC), a 2-week summer program for STEM enrichment
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• Teaching Strategies

  • No Grades – emphasize engagement, self-direction
  • Visual aids – videos, simplify complex concepts
  • Small group size – 5 students
  • Time management – collective goal setting and check-ins, frequent breaks
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- Outcomes and Extensions
  - Final group presentation
  - Positive feedback on exit surveys
  - Reinforcement learning for video games, speech (phoneme) recognition with formant classification