moco

30% fewer FLOPS in inference -> meet energy and latency constraints faster.

Problem:
Classification models must run efficiently in embedded systems. Optimizing these models for low energy and low latency is complex, often requiring **weeks or months of engineering time**.

Solution:
moco offers an alternative: a mathematical optimization library that analyzes model's input data and derives rules consistent with the model's predictions. These rules can be used in lieu of inferencing the model for some data, saving unnecessary computations. This produces models that are both **low-energy and low-latency**.

Use Cases

Financial:

Cybersecurity:

Energy:

Security:

Key Benefits:

- **30% fewer FLOPS in inference** → lower energy usage + lower latency
- **Faster development** → hours instead of weeks
- **Flexible optimization strategies:** skip unnecessary model calls or run rules + model in parallel

Interested? Contact Us!
We're looking to **validate moco on production models** that are currently rate-limited. Schedule a consultation to see how your models can benefit.

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