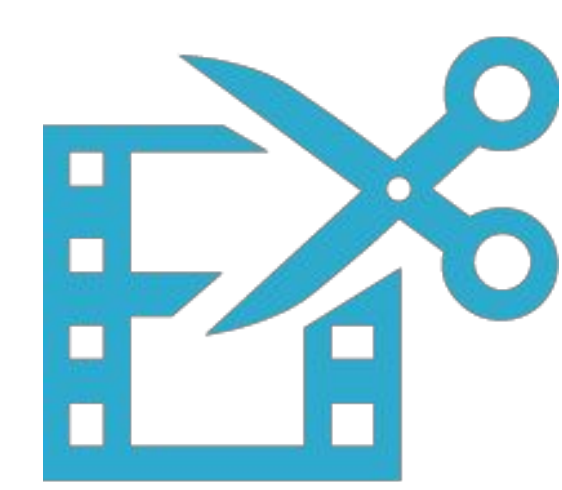


Why predict video memorability?



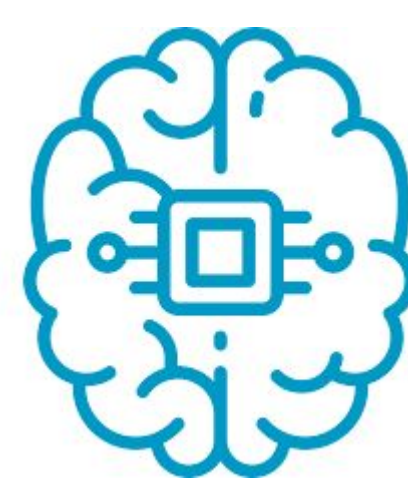
Video editing



Education



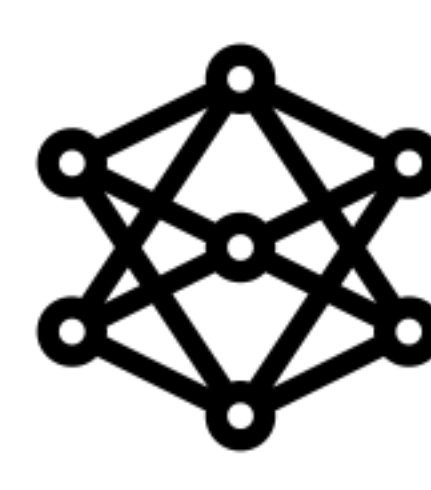
Virtual Assistant



Cognitive AI



What is memorable?



Can we predict it?

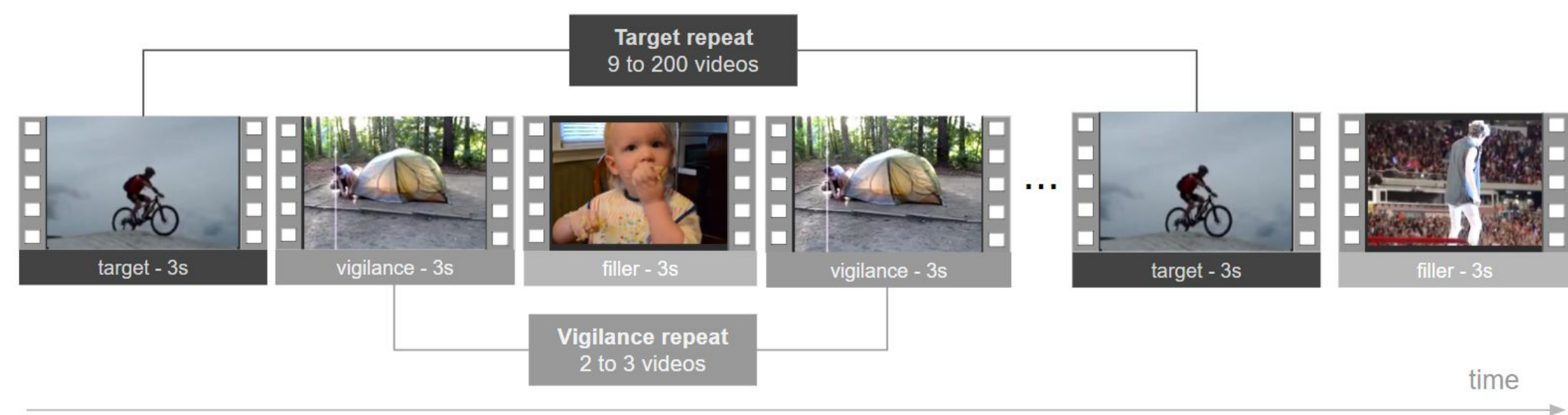


Why is it memorable?

The Memento project

Memento10k: The biggest video memorability dataset

- 10k+ videos
- 90+ annotations per video
- Nearly 1M annotations



Crowdworkers play an online memorability game and indicate when they see a repeat



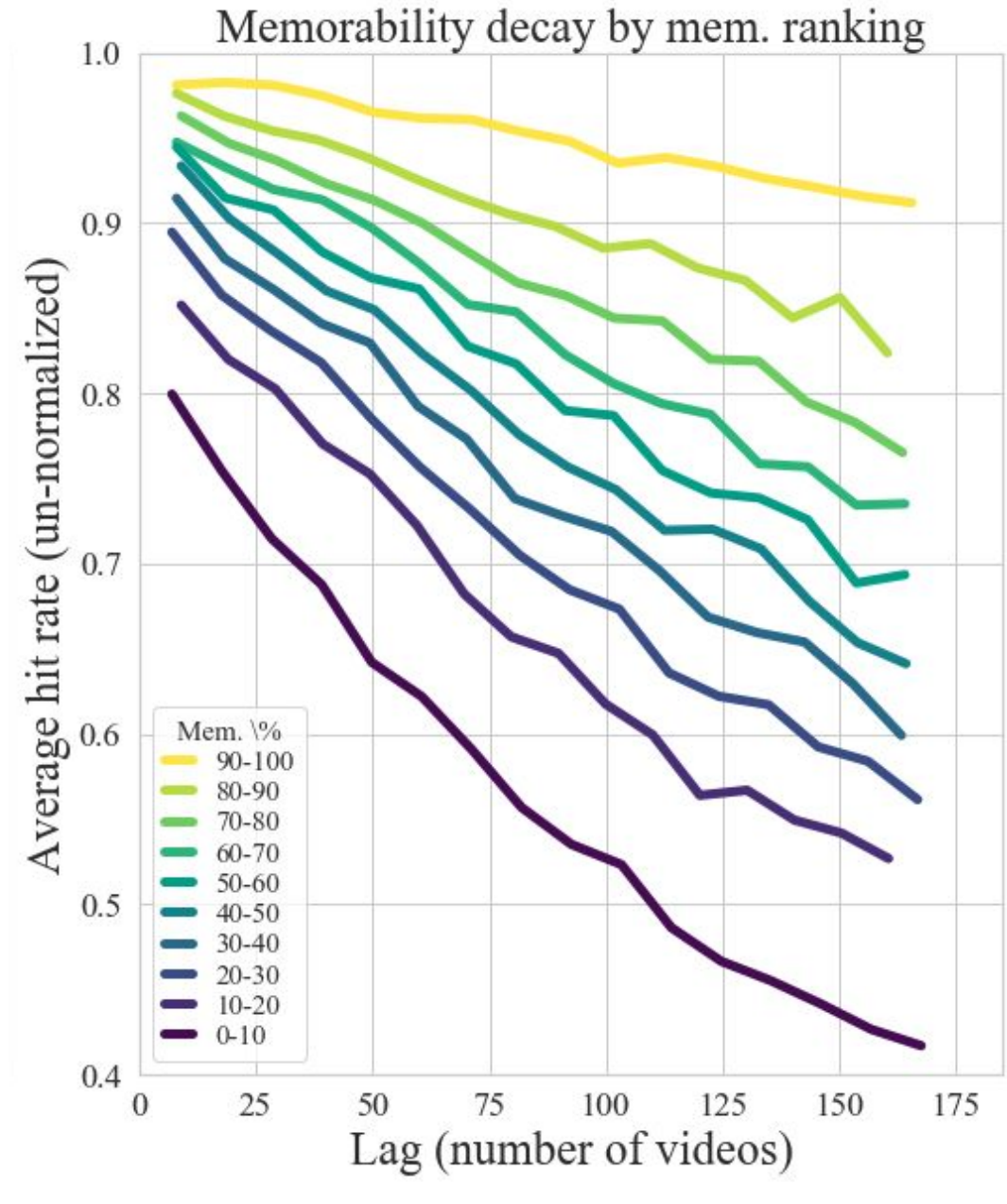
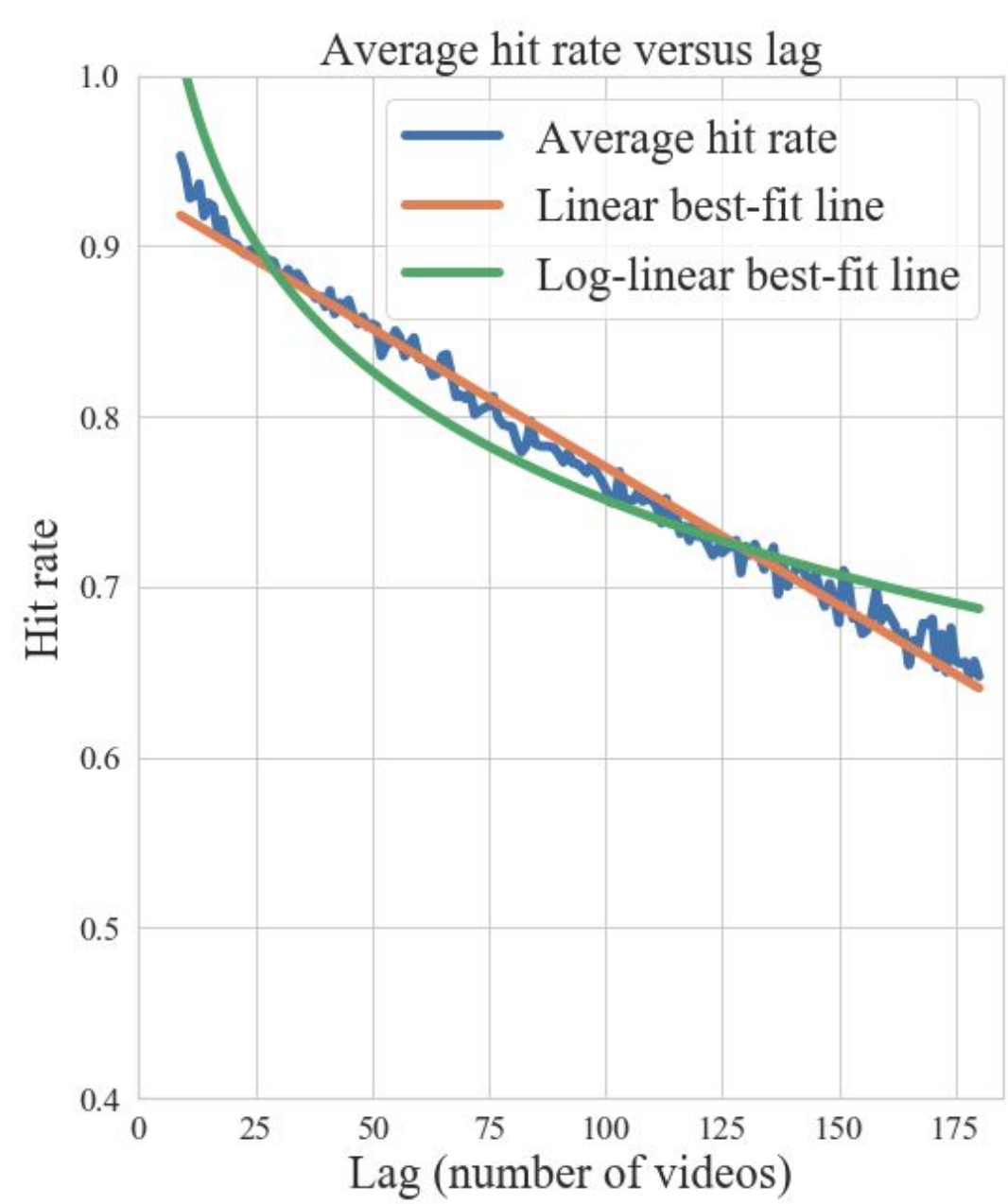
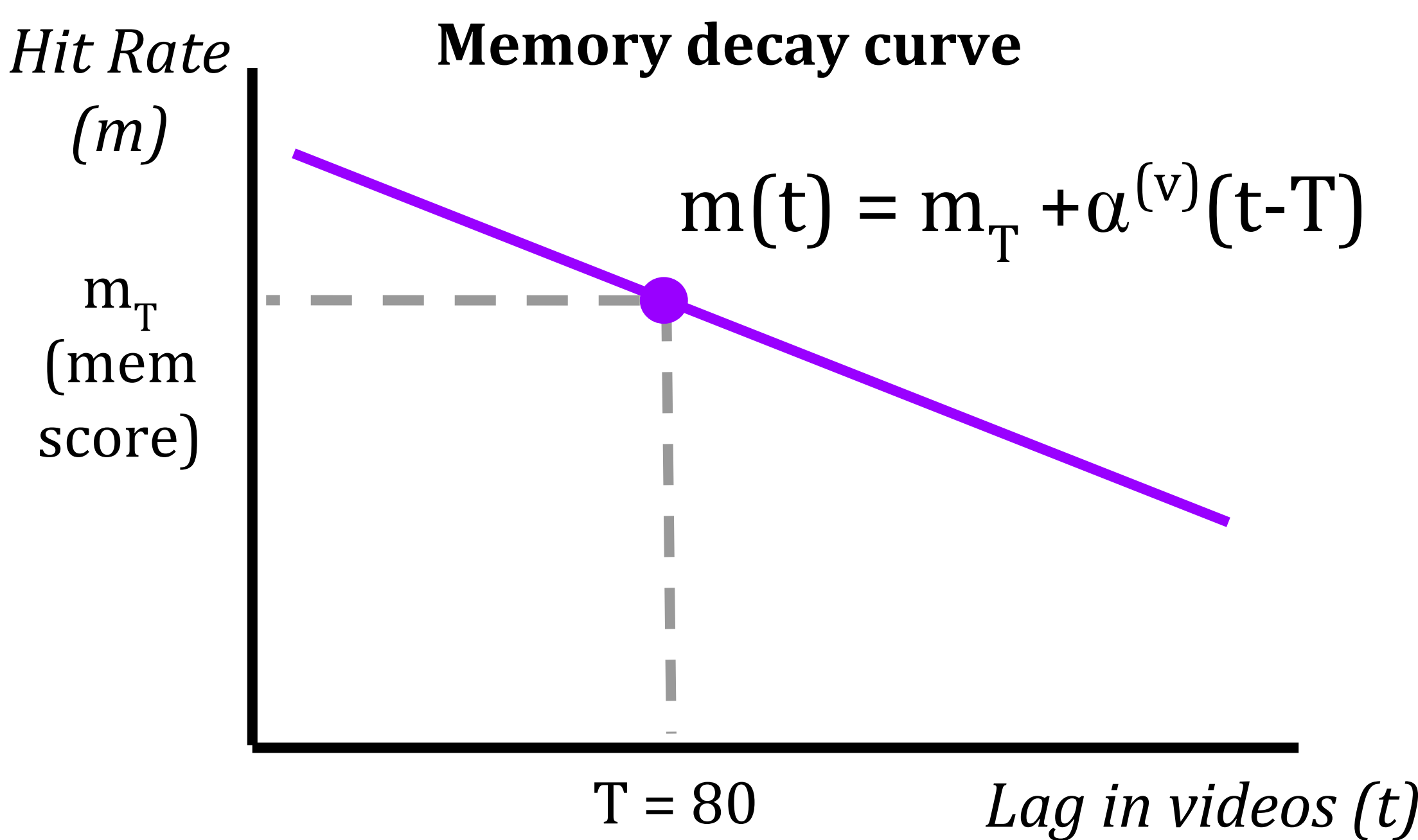
Play the game!
memento-game.csail.mit.edu



Explore the data!
memento-vis.csail.mit.edu

Modeling the memory decay curve

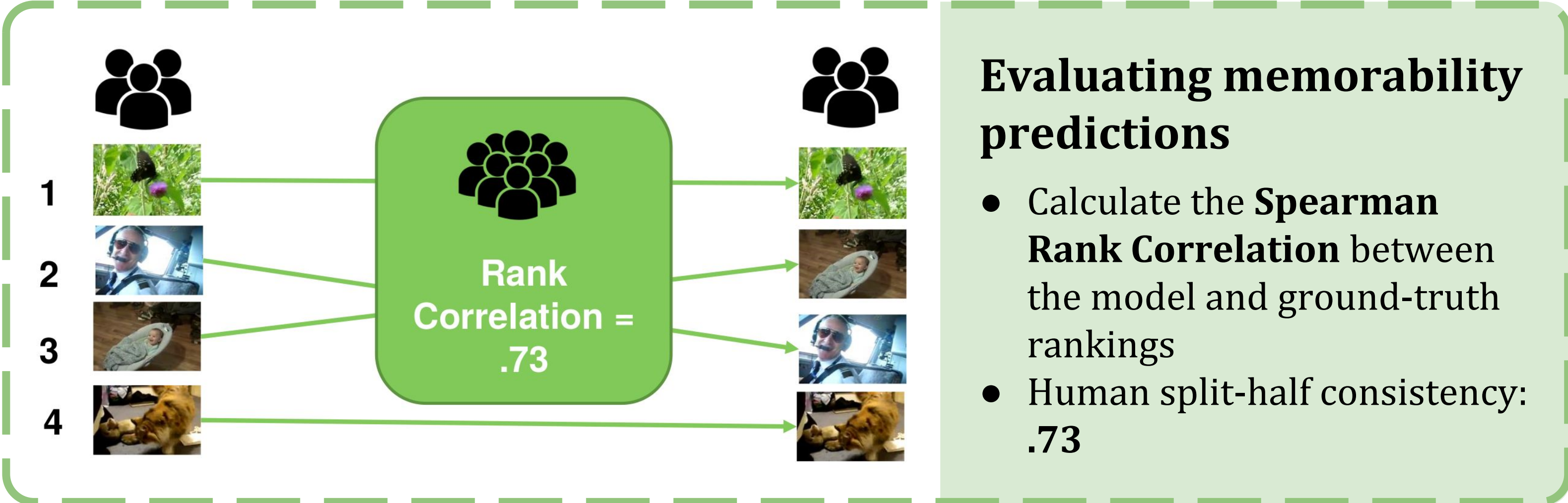
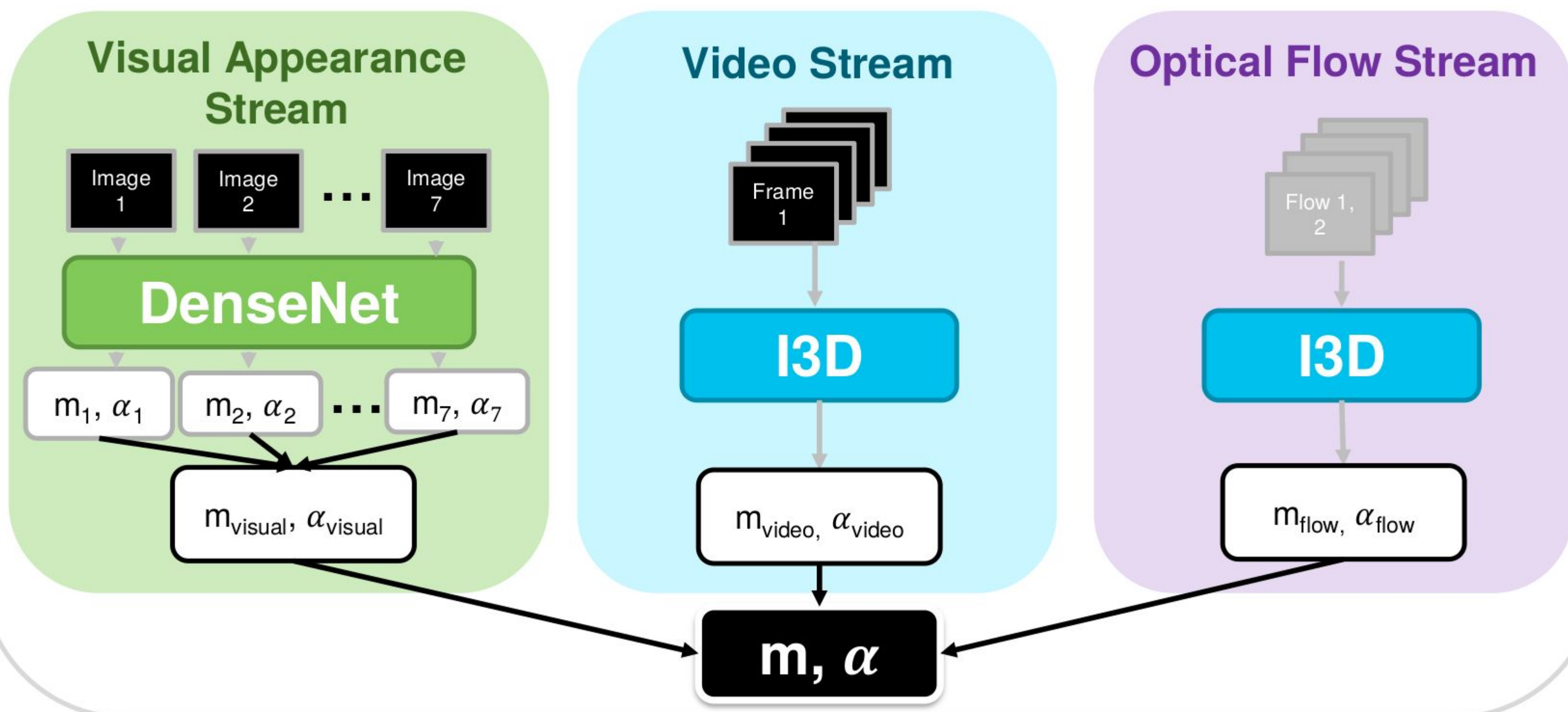
- Video memory decays **linearly** with lag
- Videos decay at **different** decay rates
- Video decay is parametrized by decay rate α and mem score m_T



Left: A linear trend fits our memorability data.
 Right: Videos decay at different rates.

Predicting video memorability

Temporal MemNet



Model	Visual Only	Video Only	Optical Flow Only	Visual + Optical Flow	Temporal MemNet
Spearman's Rank Correlation	.61	.62	.56	.64	.66

Example Predictions:



Predicted decay curve (Temporal MemNet)

Ground truth decay curve

