

Semi-Truths



Large-Scale Dataset for Testing Robustness of Detectors for AI-Augmented Images

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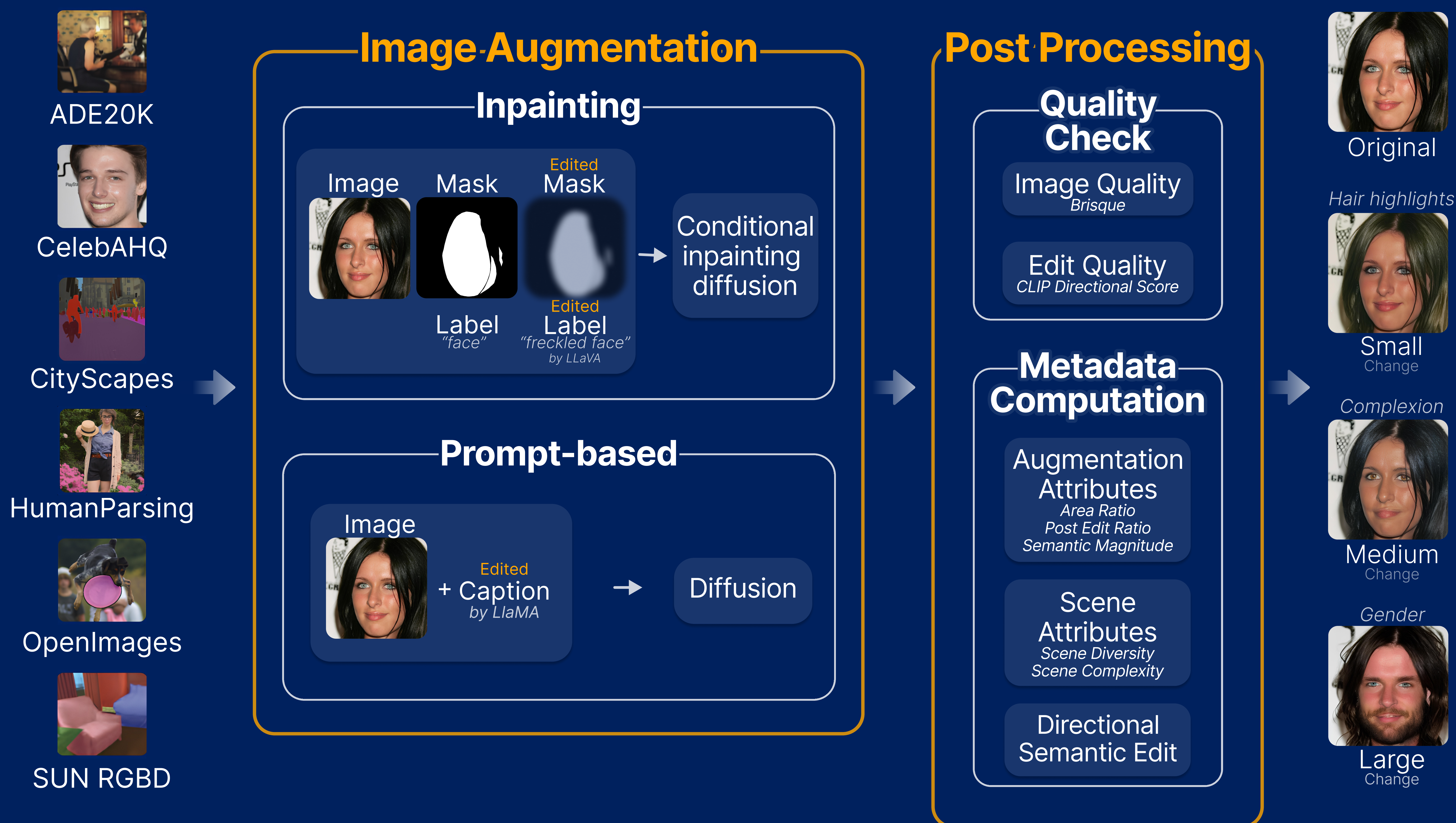
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1.5 Million AI-Augmented Images

6 Benchmarks × 2 Augmentation Techniques × 5 Diffusion Models × 3 Levels

✓ Open source ✓ Scalable ✓ User-friendly ✓ Extensive metadata

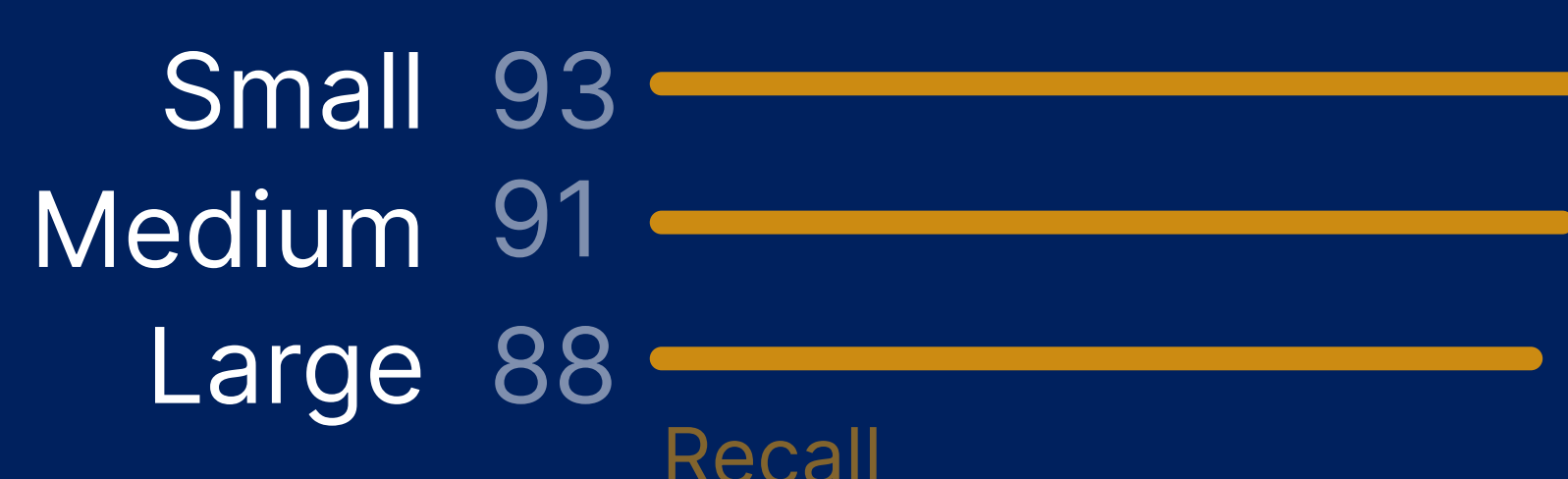


Semi-Truths reveals insights about SOTA detectors

UniversalFakeDetect



Model performance greatly varies by image types



Model performance declines with increasing changes

Original	→ Edited	Recall	Total
Vegetation	→ Tree	65.3	150
Vehicle	→ Mercedes Benz	65.8	161
Vegetation	→ Building	66.6	225

Model performs surprisingly poorly on some edits