Large-Scale Image Classification On A Shoestring

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LIMITED RESOURCES
• NVIDIA GTX580 (1.5GB)
• Two-Month Effort

OUR APPROACH
• Train Small CNNs
• Multi-Crop Pooling
• Model Fusion
• Rectify Outputs

Multiple Crops

CNN MODEL 1

15.4%

Pooled Scores

CNN MODEL 2

12.1%

CNN MODEL 11

11.4%

11.3%

Rectify Outputs

Model Fusion

Fused Scores

FINAL CLASSIFICATION

QUERY IMAGE