



Improving verification of car insurance claims by processing photos with Machine Learning



Appsilon
DATA SCIENCE

Insurance

Data

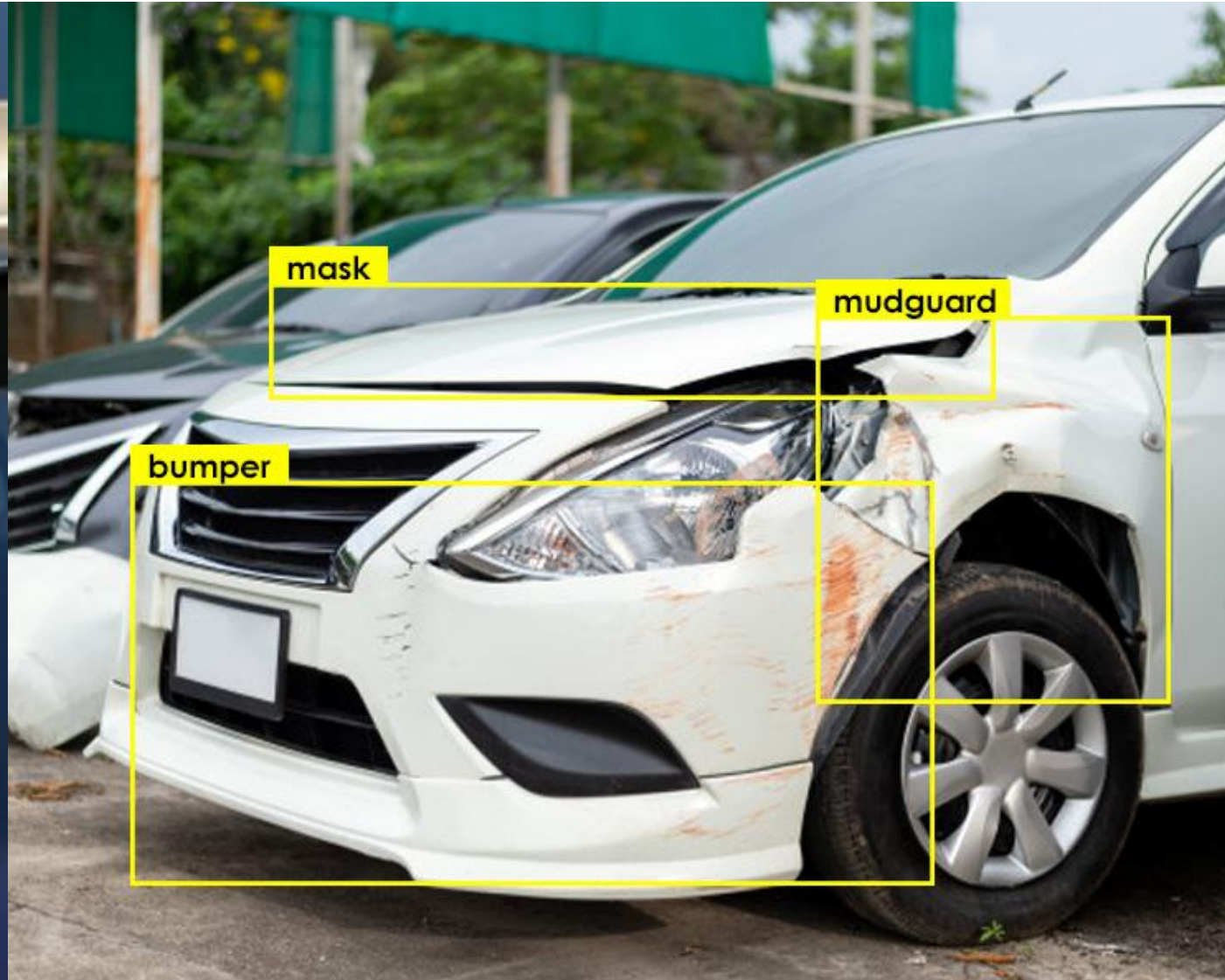
Science

Marek Rogala

 @marekrog

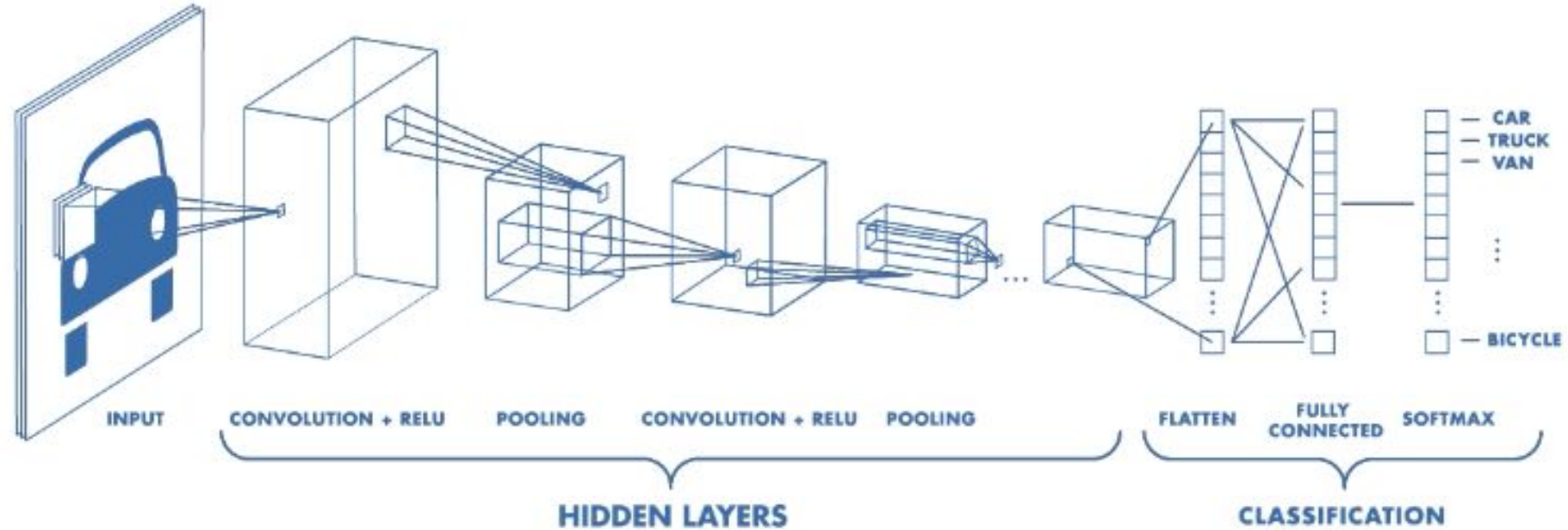
Visual Models in Insurance

TEXT RECOGNITION, DAMAGE IDENTIFICATION, VERIFICATION



Deep Neural Networks

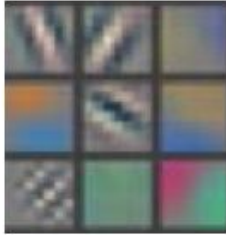
STATE OF THE ART IN VISION



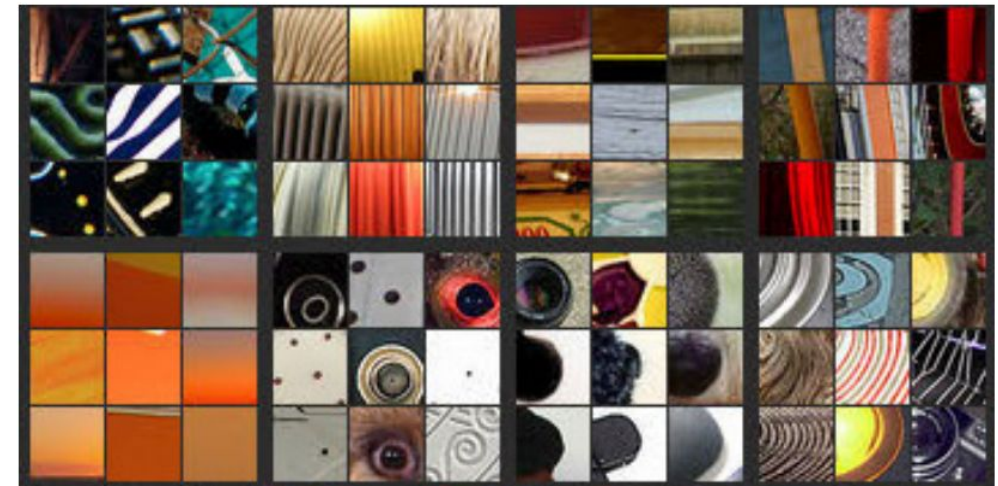
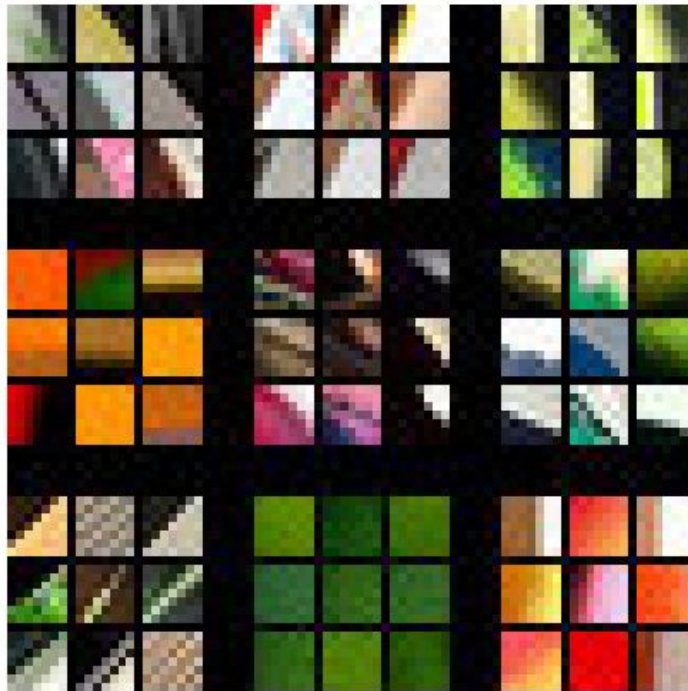
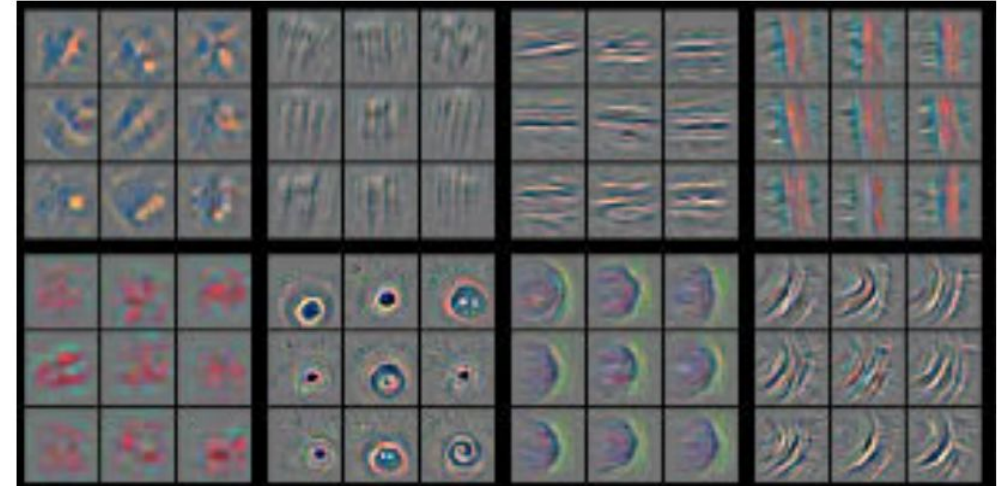
Convolutional Neural Networks

STATE OF THE ART IN VISION

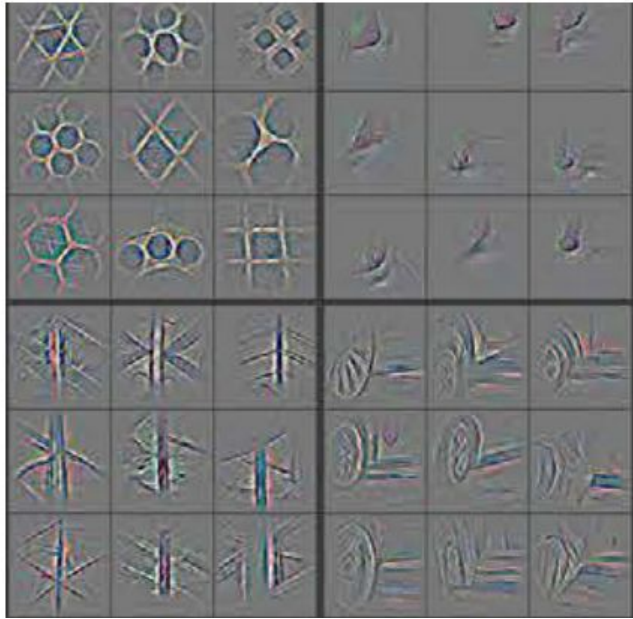
LAYER 1



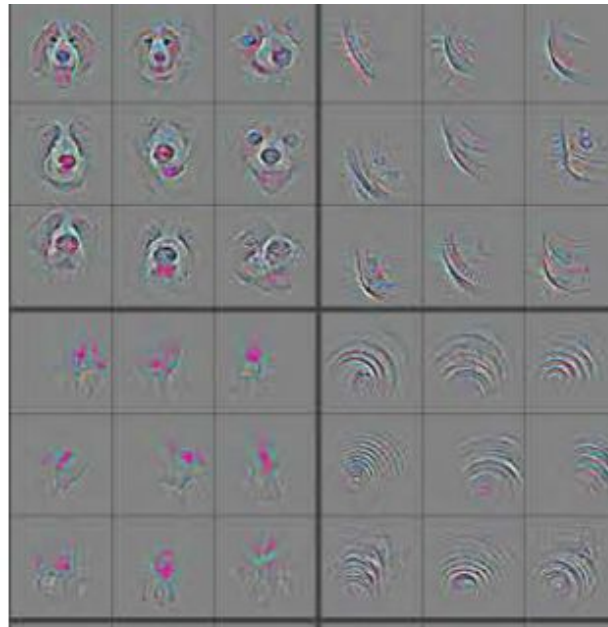
LAYER 2



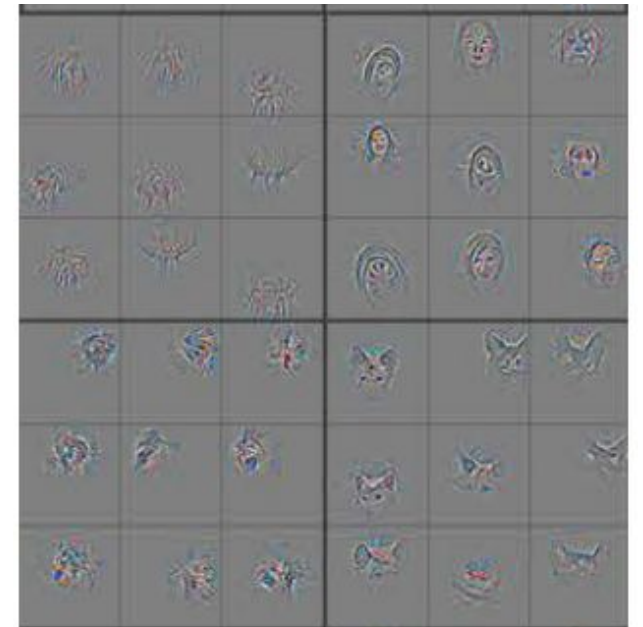
LAYER 3



LAYER 4

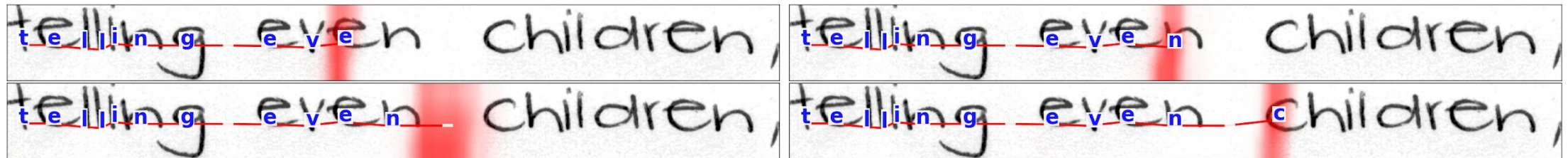
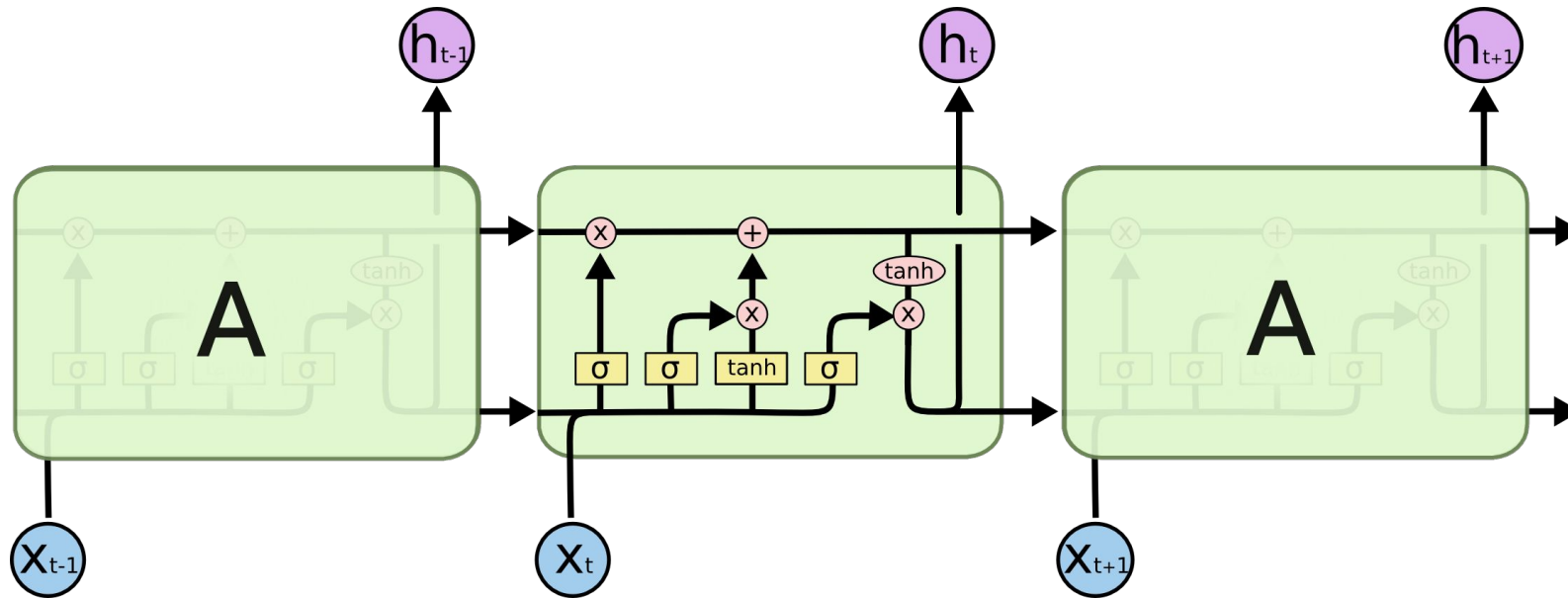


LAYER 5



Recurrent Neural Networks

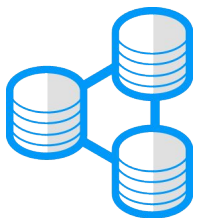
STATE OF THE ART IN TEXT RECOGNITION



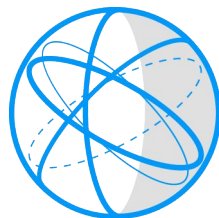
Productionization is What Matters

DELIVERING BUSINESS VALUE

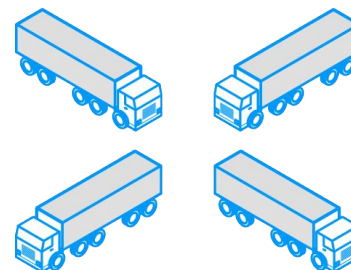
DATA VALIDATION



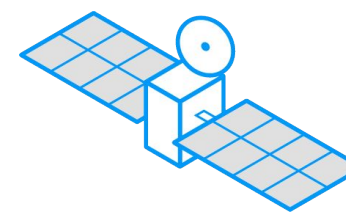
MODEL TRAINING



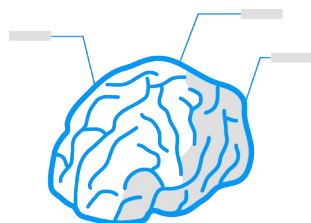
INTERPRETABILITY



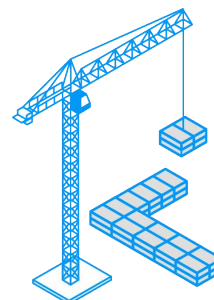
RELIABILITY & SCALING



HUMAN AUGMENTATION & OVERSIGHT



AUTOMATED MODEL UPDATE



USER INTERFACE & API

