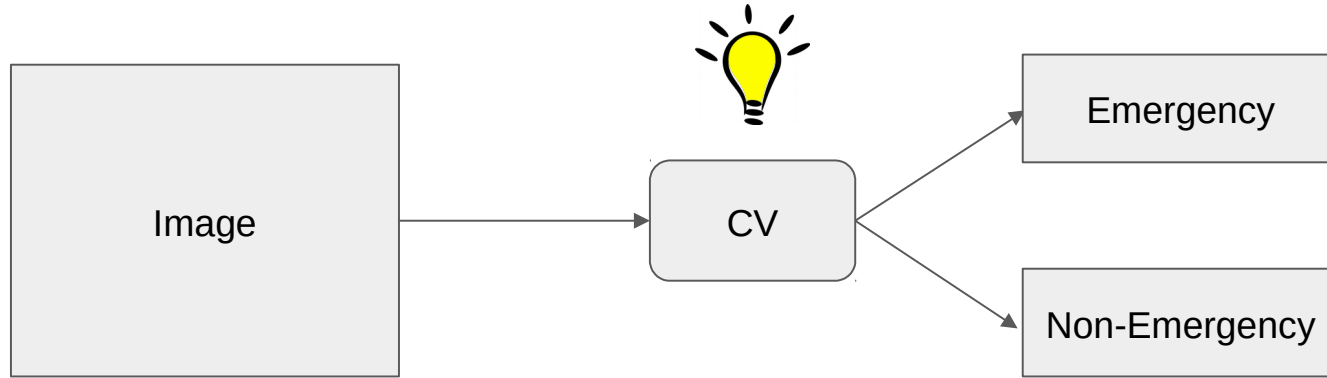# Introduction to Pre-trained models

Essential Components for an Emergency vs Non-Emergency Classifier

Components:

1. **A Camera** - To take pictures of the vehicles

2. **A trained model** - To classify the image into Emergency vs Non-Emergency.

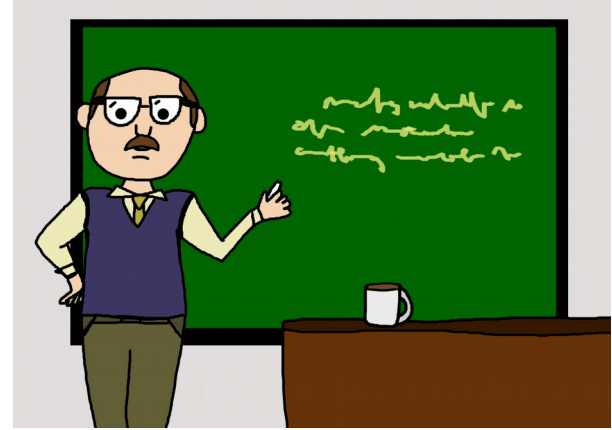3. **A Decision maker** - Based on the results of the trained model.

Understanding the CV part of the System
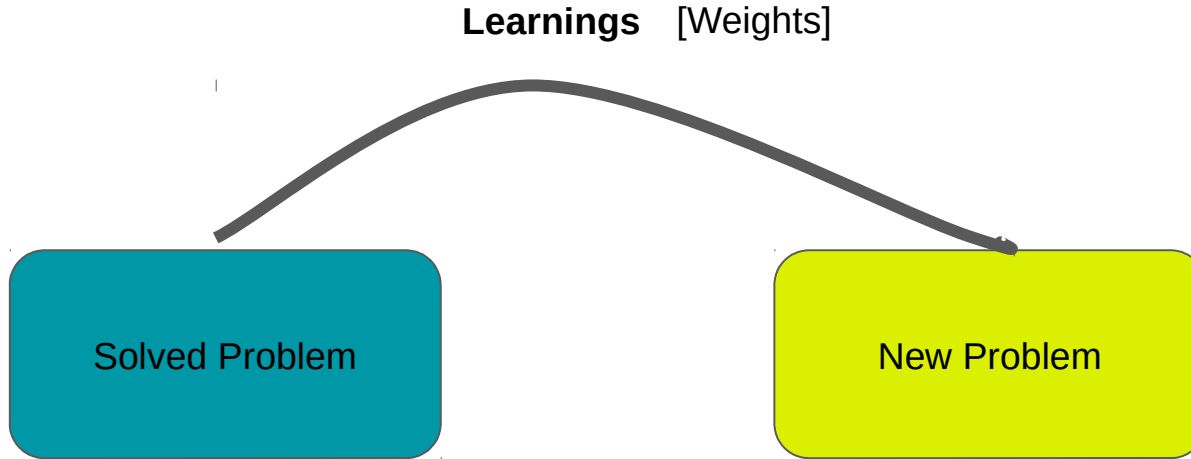
Different ways to achieve knowledge in the real world
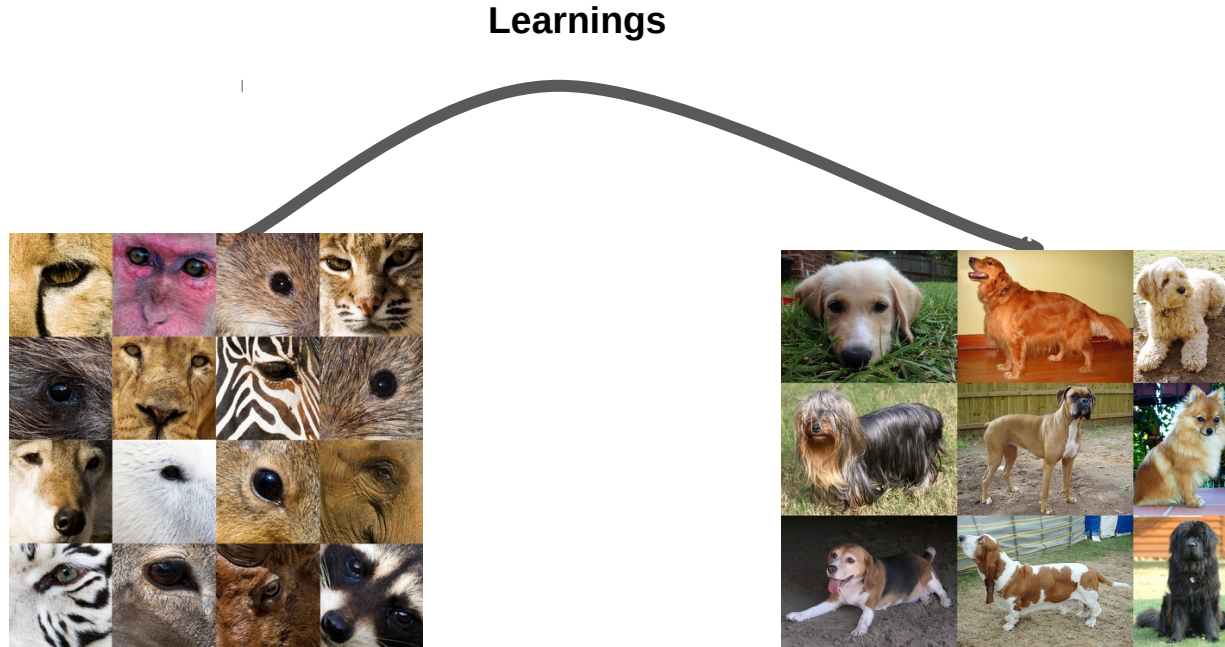

Learning from Scratch

Pre-training

Technical definition of a Pre-trained model

Learnings [Weights]

Solved Problem

New Problem

Analytics Vidhya
Learn everything about analytics

Technical definition of a Pre-trained model

Learnings

Solved   New Problem

Steps for Creating an Emergency vs Non-Emergency Classifier

Training part

1. Load data
2. Pre-Process data
3. Load weights of pre-trained model
4. Fine tune the model for the current problem
5. Validate if it works fine, iterate again if it does not

Prediction

1. Get predictions on new data

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Thank you!