

### AI Computer Vision

**AI model:**  
Tensor board, Pytorch,  
RAY+OPTUNA, Docker, Flask

### Data stack

**Ground truth datasets:**  
Planet SkySat through ESA Earthnet programme,

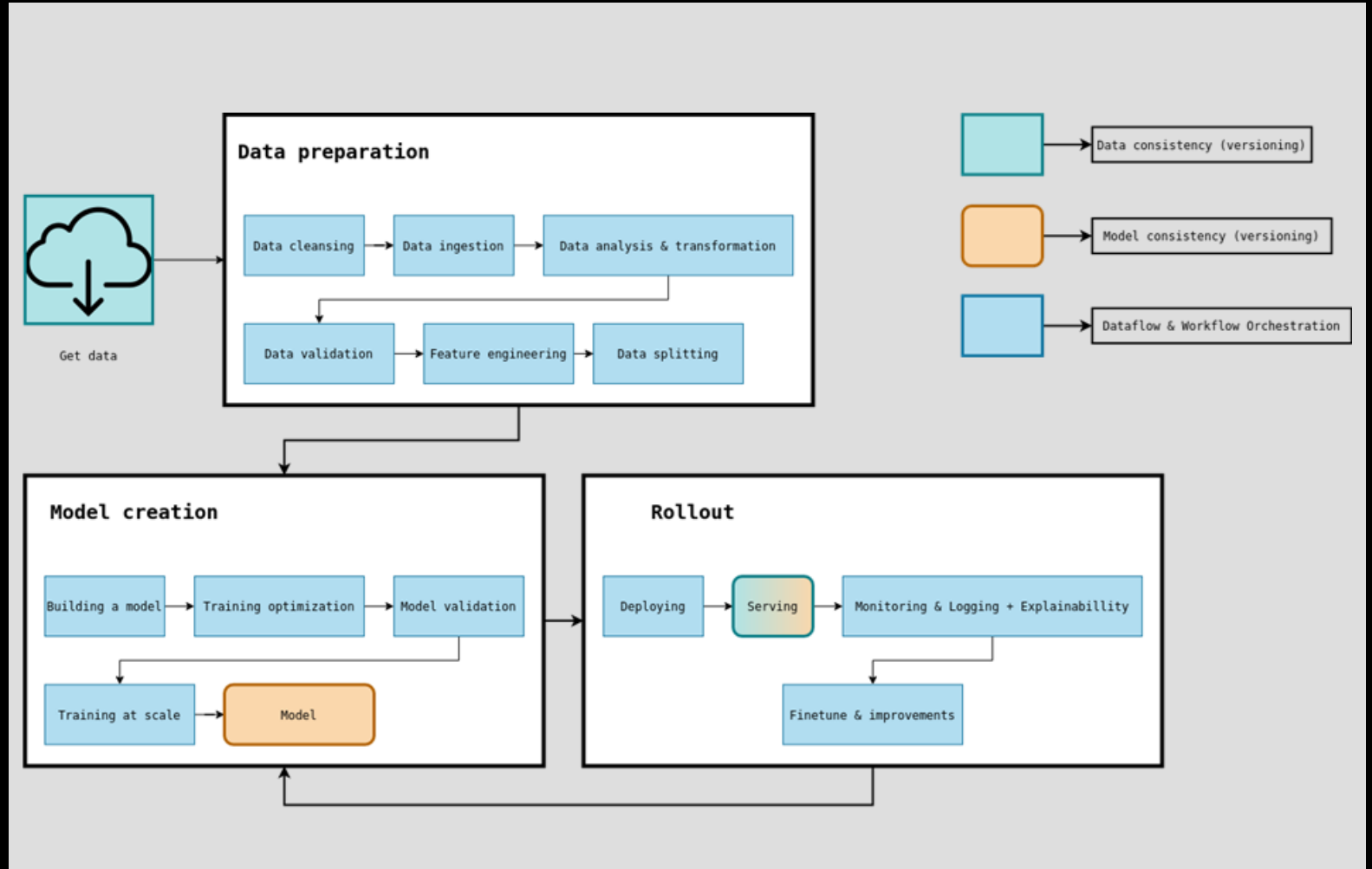
**VHR imagery:** drone imagery provided by 3D EMS, SkySat imagery

**Android camera:** in VHR situ imagery from your phone

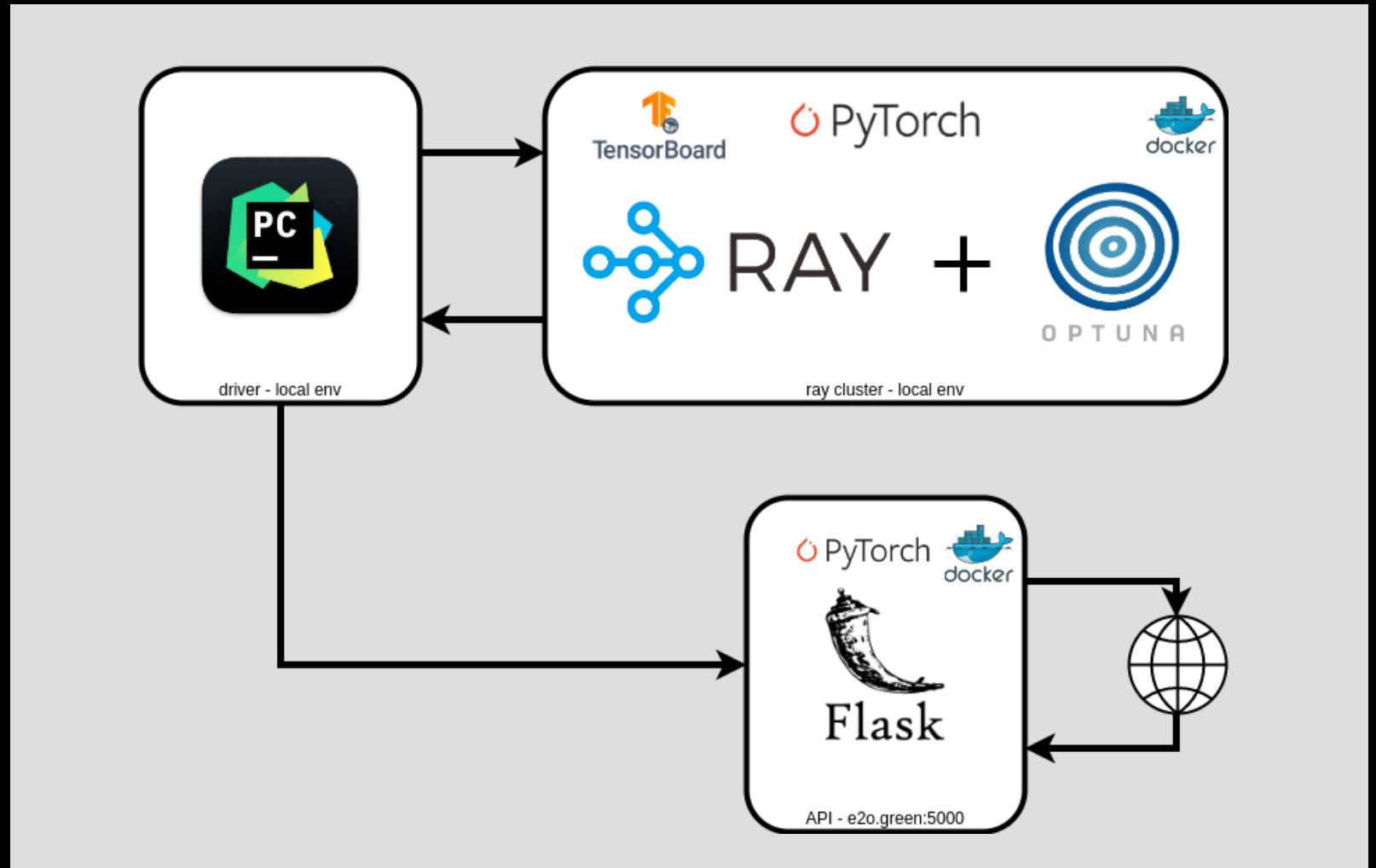
## MVP CV models presentation



## ML Pipeline implemented



## Computer Vision Web App









## Classification reports for upgraded models

```
-- model_a --
classification report:

              precision    recall  f1-score   \

 accuracy                0.89
macro avg              0.88    0.88    0.88

(2 classes)

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-- model_b --
classification report:

              precision    recall  f1-score   \

 accuracy                0.8490
macro avg              0.8896    0.8726    0.8810

(6 classes)

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-- model_c --
classification report:

              precision    recall  f1-score   \

 accuracy                0.8653
macro avg              0.8994    0.8878    0.8935

(2 classes) |
```