

DATA PREPARAION

Splitting data into training, testing and validation sets & creation of buildings masks

CREATE MODEL

Preparation of convolutional neural networks models (U-Net architecture) & testing with various parameters



Keras



MODEL VALIDATION

All models were validated and the best one was selected with F1 measure



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DEPLOY MODEL

Compressing model & setting up demo



TensorFlow



HEROKU

DEMO APP



Dash
by plotly



DETEKTOR
SAMOWOLI
BUDOWLANYCH



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1. Preprocessing phase
2. Modelling phase
3. Deployment phase

DATA GATHERING

Collecting 50,000+ images from the geoportal (orthophotomap and buildings layers)



scikit-image