

## Blackshark.ai's Orca

Blackshark.ai's Orca is a series of containers run as a service through the Microsoft Azure Synapse Analytics Marketplace. This computer vision service is designed to receive aerial images as input, detect one or many desired classes of object, and deliver output in either raster or polygonal vector data.

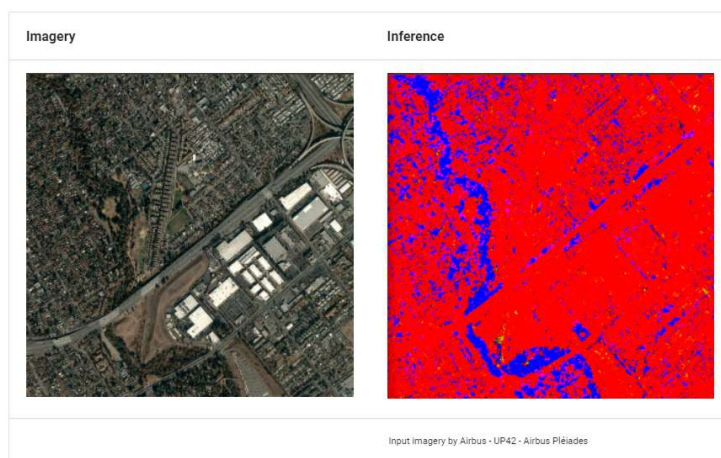
Currently, two containers are available, one detecting building footprints and another detecting vegetation coverage.

### **BSHRK-W-BFD-11 (Building Footprint Detection)**



Model BSHRK-W-BFD-11 is trained to detect the footprint of buildings. BSHRK-W-BFD-11 is capable of detecting buildings from aerial image input and producing a high-quality probability heatmap of buildings. The image can then be vectorized for an accurate representation of building footprints.

### **BSHRK-W-VGD-21 (Vegetation Detection)**



Model BSHRK-W-VGD-21 is trained to detect vegetation coverage. BSHRK-W-VGD-21 is capable of detecting vegetation coverage from aerial image input and producing a high-quality probability heatmap of vegetation coverage.