

This is a living document, meaning...

→ If you know of other examples, **please add!**

→ If you have better / clarifying links to the existing topics, **please add!**

Don't be shy :)

Master list now at

https://wiki.openstreetmap.org/wiki/Machine_Learning

Please add there.

Org	ML Thing	Link
Development Seed	Mapping the Electric Grid	https://developmentseed.org/ml-grid-docs/
Mapillary	Object / feature detection from street level imagery	https://blog.mapillary.com/update/2016/09/27/semantic-segmentation-object-recognition.html
OpenStreetCam (Telenav)	Sign detection from street level imagery	https://blog.improveosm.org/en/2018/06/the-future-of-map-making-is-open-and-powered-by-sensors-and-ai/
Facebook	Road detection from aerial imagery	https://wiki.openstreetmap.org/wiki/AI-Assisted_Road_Tracing
Microsoft	Building footprints detected from ML	https://blogs.bing.com/maps/2018-06/microsoft-releases-125-million-building-footprints-in-the-us-as-open-data
Robosat (Mapbox)	Feature extraction from aerial imagery.	https://github.com/mapbox/robosat
Missing Maps	MapSwipe User input from MapSwipe can be used as input for ML applications.	<ul style="list-style-type: none">• https://github.com/philiptromans/mapswipe-ml#• https://wiki.openstreetmap.org/wiki/MapSwipe#MapSwipe_and_Machine_Learning
SharedStreets	Trip Simulator SharedStreets Reference System	<ul style="list-style-type: none">• https://github.com/sharedstreets/trip-simulator• https://github.com/sharedstreets/sharedstreets-ref-system
MIT CSAIL	RoadTracer	https://mapster.csail.mit.edu/roadtracer.html
Development Seed	Urchn	https://medium.com/devseed/make-sense-of-urban-change-fabb9ff229d7

Talks at SOTM and elsewhere

- [The Machine Mappers are Coming](#) (Mapbox, SOTM US 2018)
- [OSM at Facebook](#) (Facebook, SOTM US 2018)
- [OpenStreetCam Is Now An Open Machine Learning Platform for OpenStreetMap](#) (Telenav, SOTM US 2018)
- [Analytic Support for Contributors: Defining Levels of Automation for Machine Learning Applied to Crowdsourced Mapping](#) (SpaceNet, SOTM US 2018)
- [Semi-Automated Map Editing](#) (MIT CSAIL, SOTM US 2018)
- [Urchn Tells You Where Cities Change, and Where OSM is Out-of-date](#) (Development Seed, SOTM US 2018)
- [How Deep Learning could help to improve OSM Data Quality?](#) (DataPink, SOTM 2018)