



Master Thesis - ML for generating road vectors

About Maxar

Maxar Sweden serves the global professional geospatial market with world-leading 3D geodata, 3D visualization solutions, and 3D image processing solutions. We're on a mission to build the Globe in 3D—a revolution in GEOINT tradecraft—that offers decision makers and analysts the entire world in highly accurate, immersive 3D. Maxar's customers are varied and come from the telecommunications, emergency response, defense, and intelligence communities.

We are searching for the best and brightest to join a culture that is open and flexible, inclusive and positive. We offer opportunities for growth and the ability to work with talented people who make a real difference for our clients. Most of our research and development work is done in our Linköping office in Sweden, which employs about 80 engineers who work on cutting-edge technology to produce unparalleled, global, precise 3D geospatial data and software.

The Thesis

Road vectors is widely used for describing a road network – either for road planning, route planning or simulation of traffic in video games. To generate accurate road vectors which describes the reality is not only hard but also a wanted product for many customers.

This thesis aim to investigate the possibility of generating road vectors with a machine learning process which uses a 3d model and a road heat-map as input. The training data issue could be resolved by using open-source data from either governments or open street map.

Qualifications

Master of Science student with an interest in AI and image registration techniques.

Contact

Gustav Tapper

0734186963

gustav.tapper@maxar.com