**Cmpt416 Summer 2015 Final Report**

This course was focused on machine learning technology and predictive analytics applications. The course was divided into two components: a systems review component and a system development component..

The systems review component involved evaluating eight machine learning systems on three machine learning problems. The results of this experiment are summarized in [Assessment of Machine Learning](https://docs.google.com/document/d/1Ap4c52d5PNcOmvvOHbacRVs77E6QD-gqnYAk6G4TX5Q/edit?usp=sharing).

The systems development component involved developing a fully functional machine learning system and use it to attempt to solve a real world problem. In this case an integration to the Apache HTTPD web server was developed (“mod\_ml”). The mod\_ml module was used as part of a web robot detection system.

The [mod\_ml users guide](https://docs.google.com/document/d/1BV6fF2Xs1wmfa6vPY7fTPak4kBzfEUd5VewT4S8uJY4/edit?usp=sharing), [robot detection system](https://drive.google.com/open?id=1fXw_jXBJzWxAqt7FSXsE3gJcTkWWibv8_1g0tnEUSVw) overview and [source code](https://csil-git1.cs.surrey.sfu.ca/cwoodruf/mod_ml) were the results of this project. A [mod\_ml demo page](http://cloudsmall8.cs.surrey.sfu.ca:8898/modtest/) demonstrates the main features of the mod\_ml Apache module.