Chemical Sample Classification

Introduction

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## Brief

The brief is to develop a classification tool to classify chemicals into classes.

In addition, the client is interested in knowing whether all variables are *necessary* for achieving optimal out-of-sample classification performance, or if a subset of measurements will suffice.

This report will aim to:

* explore, analyse and feedback on the provided dataset
* develop an optimised classification model
* determine whether all variables are required
* provide recommendations and options, as applicable

Additional technical details are available in the code comments.