Background:
Most of the time, regression failures are caused by the change in the source code but sometimes, it is due to non-determinism in the tests called flaky tests [1]. Given no change in source code, if the test case is failed, but earlier, it was passed can give rise to alarming situations such as less confidence in the quality of final product or test process. Researchers in [2][1][3] have identified several test smells that cause flaky tests.

Project Description:
This MS thesis project is to investigate spam email classification algorithms to detect test flakiness. The dataset for flaky test is available and the project aims to investigate which algorithms performs better in terms of flaky test detection and prediction, given test smells. This tool will be used in an on-going study with software center (www.software-center.se) called AAT3. You are required to implement spam email classification algorithms and determine their effectiveness.

References: