

# Anomaly Detection Server – Web App

## Main Classes

**AnomalyDetectionUtil** – holds various mathematical functions used by the Hybrid/Linear algorithms to find anomalies.

**TimeSeries** – reads data from given CSV file and holds a map that is used to navigate between attribute and the data.

**SimpleDetector** – learns and detects anomalies with a given TimeSeries object. Uses the linear algorithm.

**HybridDetector** – learns and detects anomalies with a given TimeSeries object. Uses the hybrid algorithm, which uses the smallest enclosing circle.

**Geo** – holds various shapes as JavaScript objects – line, point, etc.

**filesProccess** – receives the files from the controller and process the data in each file. If the files are invalid, it returns in error specifying which file isn't valid. If both files are valid, calls the algorithm which the user chose and sends the result back to the controller.