**Low Level Activities (15 minutes / activity):**

* Walking
* Running
* Laying down
* Sitting
* Standing
* Brushing
* Typing

**Model (each model will be performed on smartphone only, smartwatch only, and combination of smartphone and smartwatch):**

* SVM
* Naïve Bayes
* Random Forest
* Neural Network (Multi-Layer Perceptron)
* Ensemble of the methods above

**Features (accelerometer + gyroscope):**

* Mean (ax, ay, az, acc\_magnitude, gx, gy, gz, g\_magnitude)
* Variance (ax, ay, az, acc\_magnitude, gx, gy, gz, g\_magnitude)
* Energy (ax, ay, az, acc\_magnitude, gx, gy, gz, g\_magnitude)
* Entropy (ax, ay, az, acc\_magnitude, gx, gy, gz, g\_magnitude)
* Correlation (all possible correlations between any two fields derived from the **same** sensor)