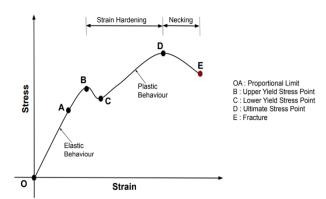
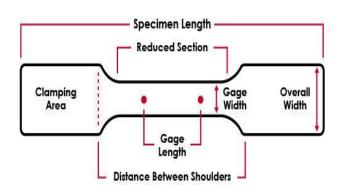
Prediction of Elongation of test specimen using Liner Regression







Strength of Material: is capacity of a material to withstand with force that applied on it without failure.

<u>UTM(Universal Testing Machine):</u> is equipment used to test material with its strength until it fractures.

Elongation: is extension in length of a specimen, when it subjected to force.

The relation between elongation and force is somewhat liner, until the bottleneck formation point reach, and after that fraction of more force will break the specimen apart.

Here in this model, the elongation of material is predicted using liner regression.

Amount of **force applied** is considered as **independent entity**, and **elongation** is considered as **dependent** entity

