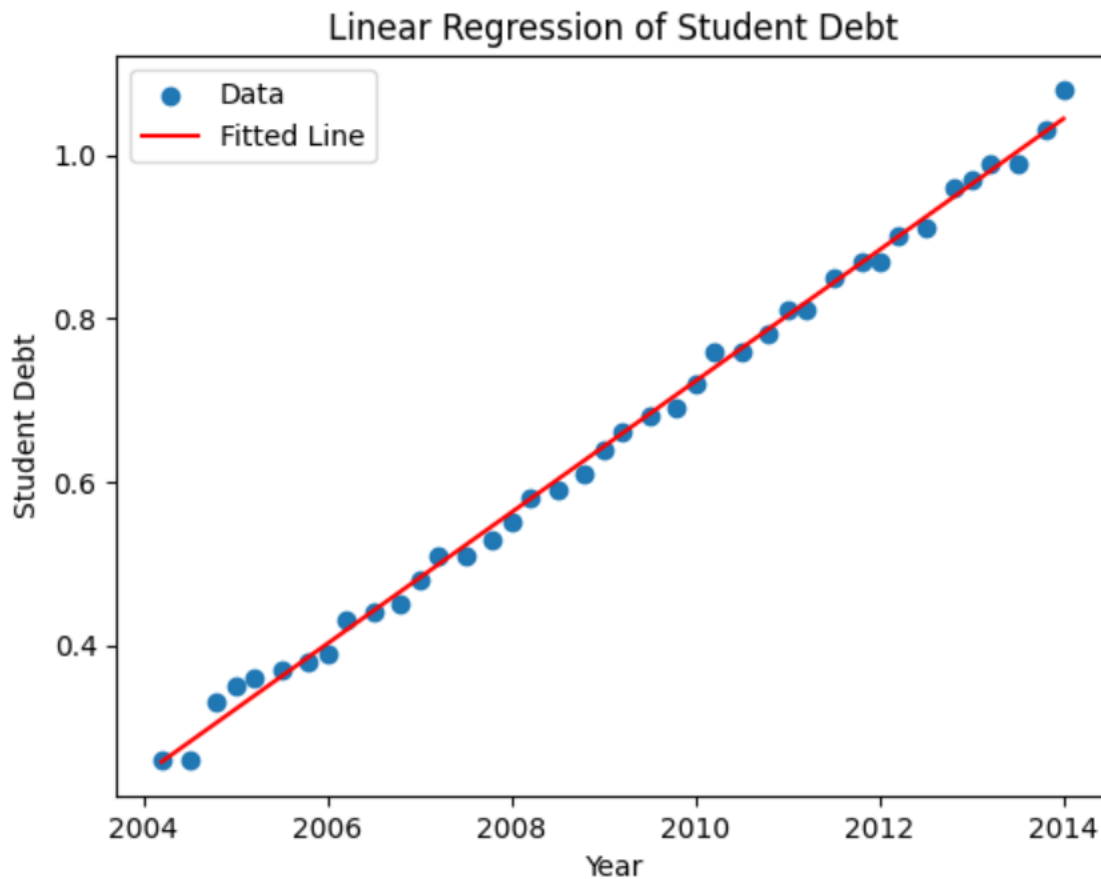


COMPSCI 589 Machine Learning

Assignment 3 Report

Task 1

- Single Figure containing the fitted line and the original data

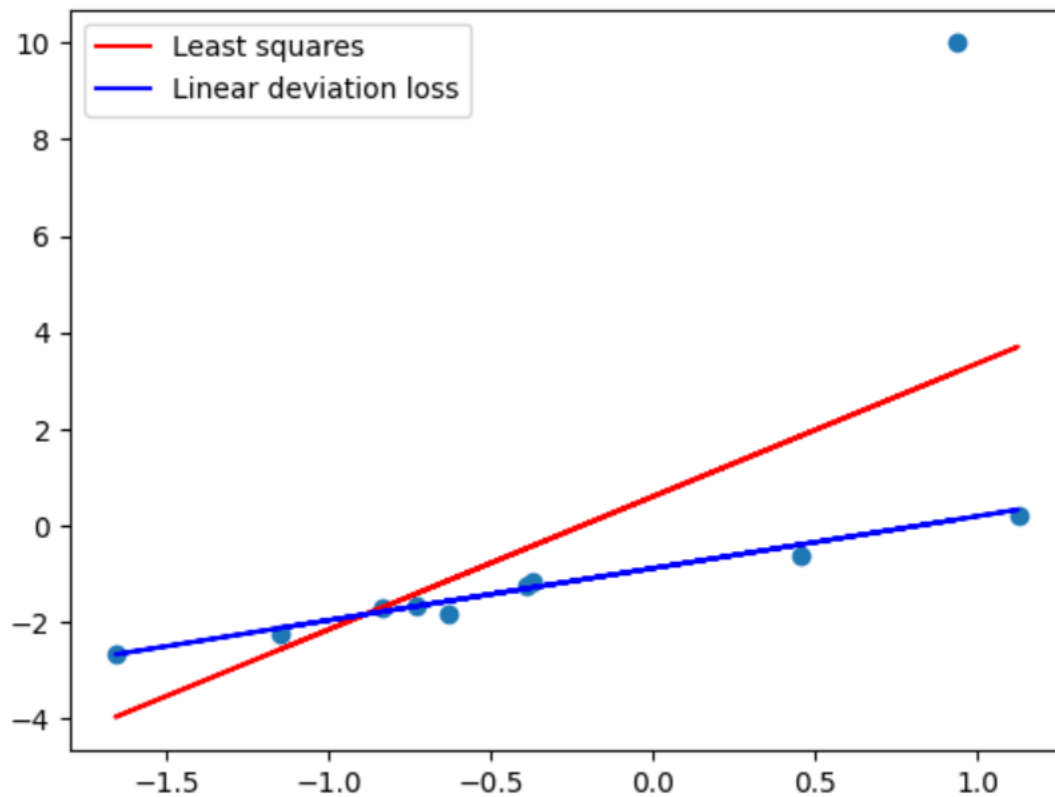


- The equation of the fitted line
- Total predicted student debt in 2030

Equation of the fitted line: $y = 0.08032453805208206x + -160.72927856445312$
The total student debt in 2030 will be approximately \$2.329524517059326

Task 2

- Single figure containing the two fitted lines and the original data



- The equation of the least squares regression line
- The equation of the least deviation regression line

Equation of the fitted line with least squares: $y = 2.7610745429992676x + 0.5945123434066772$

Equation of the fitted line with least deviation loss: $y = 1.0794546604156494x + -0.8943337798118591$