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| Introduction to Probability, Statistics and Data Handling |  |
| AGH UST ESA LAB 3 | Regression, ANOVA |

1. Copy **Regression data** from my web page contains two columns: SAT and GPA (adapted from [365DataScience](#)):

```
SAT  GPA
1714 2,40
1664 2,52
1760 2,54
1685 2,74
1693 2,83
```

...

Their total SAT scores include critical reading, mathematics, and writing. Whereas, the GPA is their Grade Point Average they had at graduation.

- a) create a linear regression which predicts the GPA of a student based on their SAT score.
 - b) find the correlation coefficient.
 - c) in report describe what is the method of regression and how the parameters are obtained
2. Comparison of two samples: copy data TwoSamples and follow the instruction [here](#). In the report describe the statistics used for the decision.
 3. Analysis of variance (ANOVA) – Instruction is [here](#). Data can be found directly in Statgraphics: File->Open->Open StatFolio-> **oneway.sgp**