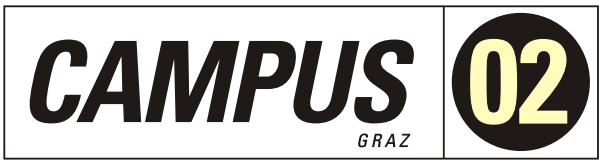
BEGLEITENDES PROJEKT

E-Learning-Aufgabe 4

ausgeführt am



Studiengang
Informationstechnologien und Wirtschaftsinformatik

Gruppe 1
Dvorak Denise
Erlacher David
Geiger Dominik
Griesbacher Hans-Jürgen
El-Kormany Akram
Kropik Philipp
Götz Florian

Inhaltsverzeichnis

1 Regression models take a semi-logarithmic form

In my opinion the main reason why the regression models have a semi-logarithmic form is, that the importance of computer skills became more and more important and so the earning for computer-skilled people increased over the years.
When they started to analyze the difference between computer workers and non computer workers, the usage of computers was in 1984 not so important as it is now respectively as it was in 1989. Especially in the early years of pc usage in the office rather high qualified jobs were using a computer. Not all jobs were effected by the launch of computers in the business world, so these jobs were not effected by computers and the wage of those workers stayed the same, while on the other hand the salary of computer effected jobs increased.
After the first stage of the introduction of pcs into the offices and the creation of newly high paid jobs, the job market calmed down and the salary for a computer skilled employee had reached a constant level.

2 What is a computer premium?

As a computer premium it is meant, that people who are using computers at work have a higher salary than workers who are not using pcs at work. You can say that the salary difference between a pc job and a non pc job is called "computer premium". This phenomenon was clearly seen at the beginning of the introduction of computers to the offices.

2.1 How to find it out with regression method?

With the help of a regression model, it is clear to see that computers effects the salary in a positiv way. If you create a dependency between computer usage and the salary you can see as a result that computers have an positiv effect on the wages, while other variables like gender or years of education have an minimal effect on the salary.

2.2 Why is the computer premium in Table II column (1) higher than that of (2) and (3)?

While in column one, we only used one independently variable (Uses computer at work), we used in column two and three much more variables. For this reason the effect of the usage of computers on the salary in column one is much higher as it is in column two and three.
Column two and three has other variables in the model like "years of education", "part-time", "gender"which effects the dependent variable also. Especially "years of education"can increase its effect with each year the worker has studied.