

Case Study on Correlation and Regression

A textile company regularly spent money on five advertising companies for their ads. (Dataset added along with)

1. First of all, check whether there is any relationship between the amount spent for advertising through five different companies and profit generated.
2. Build a regression model to predict the profit from the given data and comment your findings on it.
3. Predict the profit generated by the company, if they wish to spend the following amount for advertisement.

| | |
|--------------------|-----|
| Add1(in Thousands) | 290 |
| Add2(in Thousands) | 312 |
| Add3(in Thousands) | 309 |
| Add4(in Thousands) | 298 |
| Add5(in Thousands) | 320 |

Things to Note:

Do the case study in Python.

Create a repository in GitHub account as "Public".

Upload the notebook file (.ipynb) to the repository.

Please make sure that you are uploading the notebook file including the outputs as well.

Share the link of this notebook from GitHub in the online text editor provided in Paatshala.