Predict Salaries Using Simple Linear Regression

BY AFNAN ALSIRHANI

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Data Patterns Workshops

- Two Tracks (Short and immersive)
- Experienced Team
- Hands on and projects
- Repetitive schedule
- Different Deliver methods (online and In person)
- Flexible Timings (Morning, Evening and Weekends)

Data Science Workshops

This modular workshops (bootcamps) is essential to equip you and your team with the tools required to understand Machine Learning concepts and techniques and apply them on your data. You can select core modules of interest from a wide spectrum of Supervised and Unsupervised concepts based on your needs and availabilty.

Data Science Codeless Workshops

No Code Data Science is the skill of the future. No Code / Less code will the predominant mode of deploying AI models in the future. Accelerates the learning curve by without the need for Coding in Python /R. Be productive from Day 1 and focus on solving the business problem rather than trying to find bugs in the code.
The unique 4-C methodology (C – Concept", "C – Context", "C- Case" and "C – Codeless)

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What Is Supervised Learning:

- Supervised learning, also known as supervised machine learning, is **a subcategory of machine learning and artificial intelligence**. It is defined by its use of labeled datasets to train algorithms that to classify data or predict outcomes accurately.

Regression

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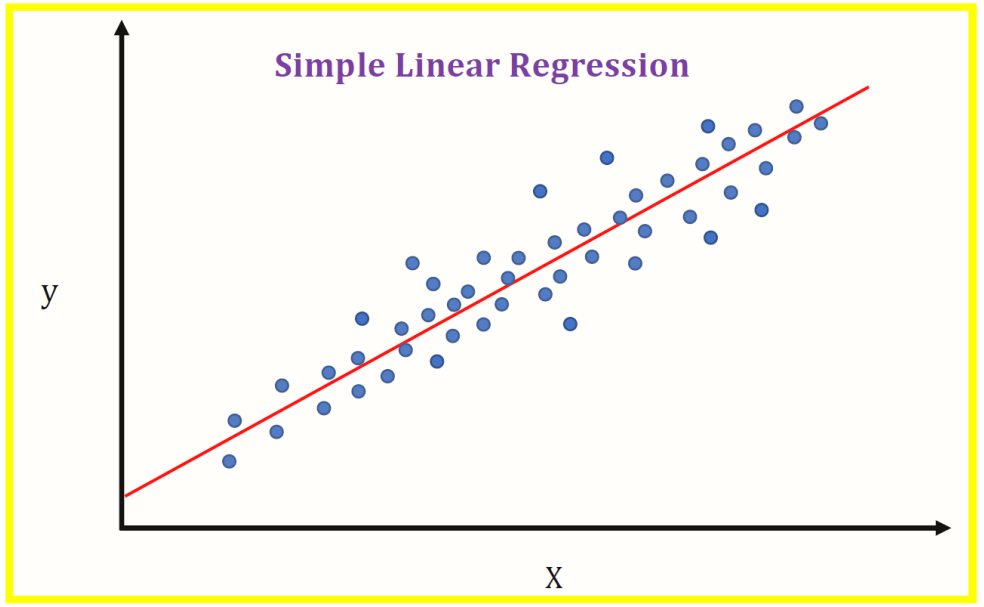
- Regression is a supervised learning method.
- Using mathematical functions.
- Regression models predict numerical values.



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Regression Models Vs Simple Linear Regression:

Regression models describe the relationship between variables by fitting a line to the observed data. Linear regression models use a straight line, while logistic and nonlinear regression models use a curved line. Regression allows you to estimate how a dependent variable changes with independent variable(s) change.

Simple linear regression is used to estimate the relationship between **two quantitative variables**. You can use simple linear regression when you want to know:

1. How strong the relationship is between two variables (e.g. the relationship between rainfall and soil erosion).
2. The value of the dependent variable at a certain value of the independent variable (e.g. the amount of soil erosion at a certain level of rainfall).

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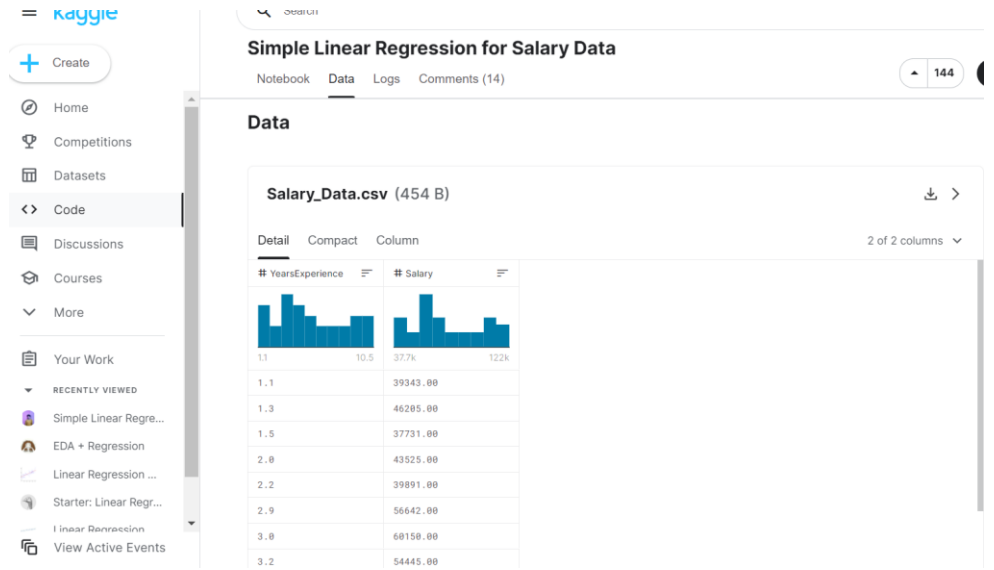
Problem Definition

https://www.kaggle.com/code/vivinbarath/simple-linear-regression-for-salary-data/data

Predicting salaries based on years of experience

Attributes:

- salaries
- experience



Thank you

DATA PATTERNS TEAM