Generalized linear models

1. Introduction:
2. GLM component:

(**Random Component** , **Systematic Component, Link Function)**

1. **Simple Linear Regression**

**Create some synthetic data and fit a model)**

1. **Binary Logistic Regression**

**(Create some synthetic data and fit a model)**

1. **Poisson Regression**

**(Create some synthetic data and fit a model)**

1. **How to select the model that fits the data the best ?**

**- AIC**

**-** <https://stats.stackexchange.com/questions/190763/how-to-decide-which-glm-family-to-use>

**- other metrics**

**7) Conclusion**

**Code here (clone, commit and push changes):**

**Github:** <https://github.com/Gianl-msi/>

**Folder: Generalized Linear Models**

**Resources:**

<https://online.stat.psu.edu/stat504/lesson/6/6.1#:~:text=The%20term%20%22general%22%20linear%20model,continuous%20and%2For%20categorical%20predictors>.

<https://towardsdatascience.com/generalized-linear-models-9cbf848bb8ab>

<https://www.youtube.com/watch?v=SqN-qlQOM5A> (10.30 to 14.32)

<https://www.youtube.com/watch?v=528hODu9hvY>

<https://www.youtube.com/watch?v=528hODu9hvY>

https://medium.com/@sarka.pribylova/generalized-linear-model-f607ac7f0ef5