Education as a Predictor of Income

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# <https://github.com/kaymaethomp1/Portfolio><https://kaylamae16.wixsite.com/website>

# Which Domain?

The domain of this project is education in relation to income.

Sources:

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# Which Data?

# <https://www.kaggle.com/c/income-prediction/data>

# Research Questions? Benefits? Why analyze these data?

The main question I will ask with this project is: “Is level of education tied to income level?’ This question is important because there is a perception by society that more education leads to more income. However, more education can lead to more student debt, so this project will aim to prove the value of education via increase in income.

# What Method?

I will use Python to generate a machine learning prediction model. I plan to use a Logisstic Regression model and test this model with a confusion matrix as well as testing precision, recall and F1 score.

# Potential Issues?

I have completed similar work before and do not anticipate any issues at this time.

# Concluding Remarks

In this project I will create a model that will use gender and level of education to predict the level of income a person receives. Pursuing higher levels of education is expensive and time consuming. This project is important to prove the perception in society that more education means more income. I will use a logistic regression as the framework for this model and will test it for improvement in the process of creating it. This analysis is important because it can serve as a means for potential students to weigh the positives and negatives for pursing higher levels of education. I plan to use Python to create my model and test my model. Prior to building the model data clean up and exploratory data analysis will also be done in Python.