1. **Background/Introduction/Problem Statement/Justification**

In recent years, blockchain technology has gained significant attention due to its potential to revolutionize various industries. One such industry is software development, where blockchain technology can provide solutions to various problems such as data security, transparency, and decentralization. However, not all software engineers are familiar with or favorable towards blockchain technology. Therefore, understanding the factors that influence a software engineer's attitude toward blockchain technology is important in promoting its adoption in the software development industry.

The aim of this project is to create a classification model that predicts whether a software engineer would be favorable toward blockchain technology or not. The problem statement for this project is to determine the factors that influence a software engineer's attitude toward blockchain technology and to create a model that accurately predicts this attitude. The model is based on several independent variables such as their experience with a vast amount of technology, their yearly salary, age, their work experience, and their experience with various blockchain technologies. The dependent variable is the software engineer's attitude toward blockchain technology.

The model presented in this project will beneficial for the outlook of blockchain. It will enable the identification of software engineers who are more likely to be favorable towards blockchain technology and target them with educational programs or job opportunities that utilize blockchain technology. Additionally, understanding the factors that influence a software engineer's attitude toward blockchain technology can help in promoting the adoption of blockchain technology in the software development industry.

In conclusion, this project aims to investigate the factors that influence a software engineer's attitude toward blockchain technology and to create a classification model that accurately predicts this attitude. The significance of this project lies in its potential to promote the adoption of blockchain technology in the software development industry, which could have a profound impact on various industries that rely on software solutions.

1. **Objectives/Hypotheses**

The objective of this project is to create a classification model that accurately predicts a software engineer's attitude towards blockchain technology based on their relevant characteristics. To do so, this paper will present two models, which will be trained using logistic regression and assessed using Repeated k-fold Cross Validation with k=10 to ensure their accuracy.

Specifically, the project aims to investigate the following hypotheses:

1. The number of technologies and web frames a software engineer has used will have a positive correlation with their attitude toward blockchain technology.
2. A software engineer's yearly salary will have a positive correlation with their attitude towards blockchain technology.
3. Age will have a negative correlation with a software engineer's attitude toward blockchain technology.
4. Working in a small company will have a positive correlation with a software engineer's attitude toward blockchain technology.
5. Exposure to backend technology will have a positive correlation with a software engineer's attitude toward blockchain technology.
6. Having entrepreneurship work will have a positive correlation with a software engineer's attitude toward blockchain technology.
7. Working with Solidity or wanting to work with Solidity will have a positive correlation with a software engineer's attitude toward blockchain technology.
8. Being a blockchain developer will have a positive correlation with a software engineer's attitude toward blockchain technology.
9. The independent variables are jointly statistically significant to the model.

By investigating these hypotheses, the project aims to identify the factors that most strongly influence a software engineer's attitude toward blockchain technology and create a model that accurately predicts this attitude. The project will also compare the two models, to find out the more preferred one.