- Economic

  We are using free solutions in our app. More specifically, we use Tensorflow, which is an open source Machine Learning Framework by Google to train our stock prediction model. For storage, we use Google Cloud Platform storage, which we have free student credits. To develop the Android mobile app, we use Android Studio and integrated emulators, which are free of cost. Our final app will be open to all audience who want to learn stock prediction but have no available resources to try in real life. I hope our app would help people make better investment decisions.

- Professional

  This project will add Machine Learning skill set for both of us. It will give us a chance to improve our Android mobile development skills. On a larger scale, we will learn how to develop a system from start to finish, both front end and back end. Our project needs some Machine Learning expertise that we cannot obtain in a short period of time. However, we have our advisor, Dr. Minai, who is an expert in Machine Learning, to help us out. We also learn teamwork and task scheduling in software development.

- Social

  We will upload our app to Android Play Store, which enables it to be downloaded by everyone who has an Android phone. Our app is non-profit and can be used by anyone. The benefit of our app is to help beginners in stock investment make good decisions. Therefore, they can avoid financial loss if they try out in real life with very little experience. When people improve their stock investment skill, they could use that to be financially independent. Our code serves as an example for those who also want to build machine learning model to predict stock

- Security

Our app uses data from public APIs and publicly available historical stock data. Our app doesn't require user to provide their personal data. The app only stores user prediction on the Google cloud platform, which is very secure. There should be no privacy concern since we don't require any permission to access contacts, photos, or other personal information on the device. There is no eavesdropping issues since our data transmission only contains stock data, and nothing personal, so leaking it would be fine.

Overall, our app only uses anonymous and public data, so there is no security concerns.