**Q2. Identify the major markets for district Agra and plot price patterns for each of them. What patterns do you identify?**

Major markets are Achnera, Agra and Fatehpur Sikri as these three markets have high modal price when compared to other markets.

**Q3. Comment on how you can leverage machine learning to predict price for a given market in Agra for ‘Potato’?**

1. **What are the data preprocessing and cleaning steps that you would apply?**

Data preprocessing should include checking data for the presence of blank values, missing values etc and identifying outliers and treating them accordingly.

1. **What are the features you would use to create the model?**

Except Sl.no. all features should be considered for model building.

1. **How would you frame this problem as machine learning problem? What would be the target variable?**

Variables in this study indicate that there is some relation between price and market. Hence this problem can be modelled using machine learning. Target variable in this study is “Modal price”.

1. **Which algorithm would you use for price prediction?**

Different algorithms like multiple linear regression, decision trees and random forests can be used for predicting the price.

1. **What would be the loss function you would use?**

Root mean square error can be used as loss function.

1. **Any other comments you want to add?**

New features can be derived from existing features and hyper parameter tuning should be done to get a model with good predictive performance.