**Smart transportation planning: Data, models, and algorithms**

The journal is presenting different machine learning models like ARIMA and exponential smoothing that can be used to help enhance transportation system. The main objective of selecting this paper was to identify what common models being used and how they are applied to perform predictions/forecasting and classification. The challenge will be the level of complexity of the models. Therefore, exploring existing machine learning platform like Google cloud and Microsoft Azure could save some of the hassle and time.

<https://www.sciencedirect.com/science/article/pii/S2666691X20300142>

**HomeSeeker/ A visual analytics system of real estate data**

The main idea of the paper is to build a tool that provides home-seeker a convenient way to look for the dream house. The variety of visualization included in the paper had provided us a complete view on different visualization designs and a recommendation about their uses. The potential challenge is the level of complexity of some of the graphs in both visualization and interactivity yet this can be solved by utilizing third party visualization tools like Tableau and Power BI.

<https://www.sciencedirect.com/science/article/pii/S1045926X17301246>

**Spatiotemporal urbanization processes in the megacity of Mumbai, India: A Markov chains-cellular automata urban growth model**

This paper presents the use of machine learning algorithms to monitor and predict Mumbai city expansion. The paper integrated two models, the Markov chain and the Cellular Automata. In our project we could use such blend of models to help predict the construction hot areas and forecasting urbanization growth. Our challenge would be the availability of data such as satellite images. However, we could rely on population data and try to find other relevant public data.

<https://www.sciencedirect.com/science/article/pii/S0143622813000362>