hw6a design discussion

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Design

Domain: Machine Learning for Predicting Time Series Data

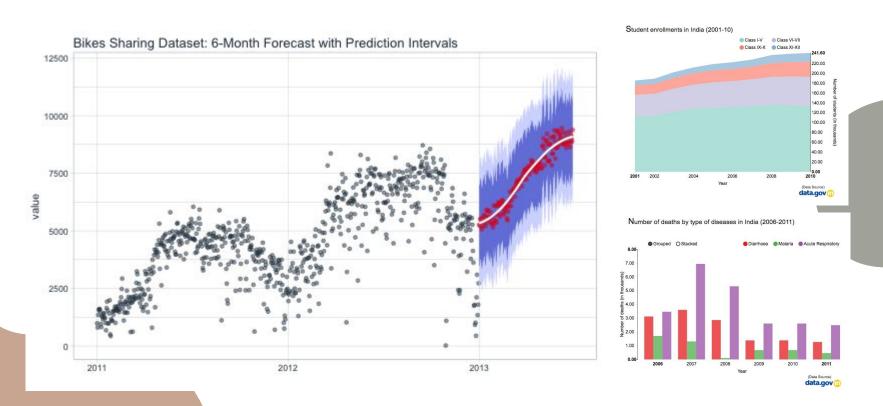
Possible Data Plugins: Stock prices, global temperatures, gas prices, flu cases

Generality vs Specificity:

- Data plugin provides dataset with time data
- Framework processes dataset with machine learning and return time series forecast
- Visualization creates graphs

The framework is reusable for all kinds of time series data and provides a lot of flexibility for different data/visualizations.

Potential Visualizations of Time Series Data



Data Plugin Interface

```
public interface DataPlugin {
void cleanData();
String[] getColumns();
// return path to csv file
String getData();
// return columns to train model on
String[] getFeatures();
// return columns to predict
String[] getFactors();
```