Mapping Traffic Data Proposal

Team P01
CSC 422
North Carolina State University

1 Data Set

NY Traffic Volume Counts (2012-2013) from New York City Open Data. This data set contains counts of traffic by street and hours of the day.

`www.kaggle.com/new-york-city/ny-traffic-volume-counts-2012-2013`

2 Project Idea

We will use traffic data from New York City at different times of day and intersections over multiple days to train a machine learning model that can predict traffic conditions on a given day and street. This model could be used to inform traffic lights and transportation planning.

3 Software

We will use Python to write a data training program as well as a data checking program. We are considering using libraries *scikit-learn* and *Tensorflow*.

4 Papers

Traffic flow forecasting with deep learning by Per Øyvind Kanestrm from the Norwegian University of Science and Technology.

`https://brage.bibsys.no/xmlui/bitstream/handle/11250/2563560/Master_2017_Kanestrom.pdf?sequence=1&isAllowed=y`

5 Team Members

Charlie Zong - Data Preprocessing
Conner McCarthy - Model Training
Corey Vandiver - Model Training
Koby Brown - Testing

6 Midterm Milestone (Mar 28th)

Complete the data training program and preliminary data checking program.