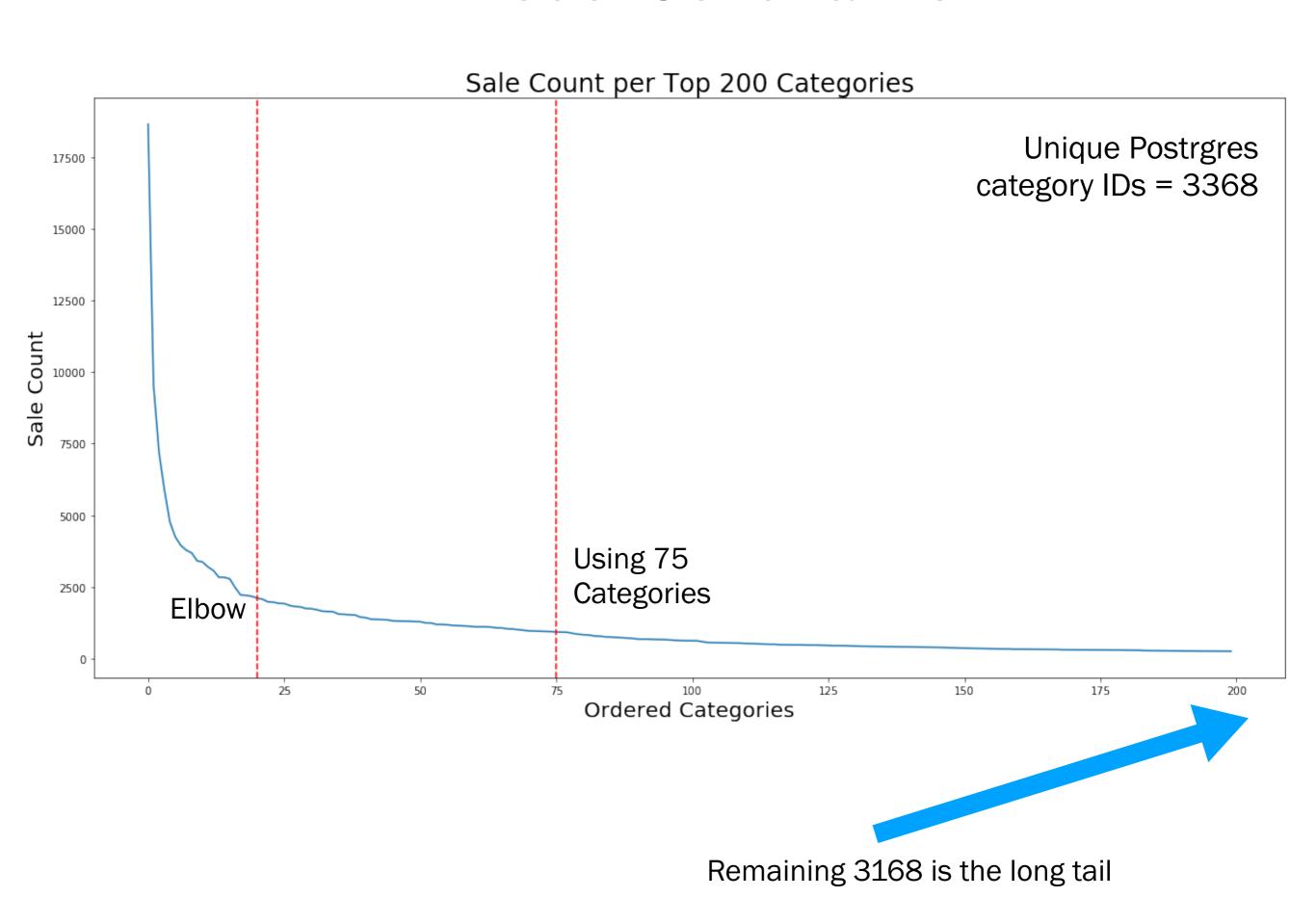
Engineering a Model

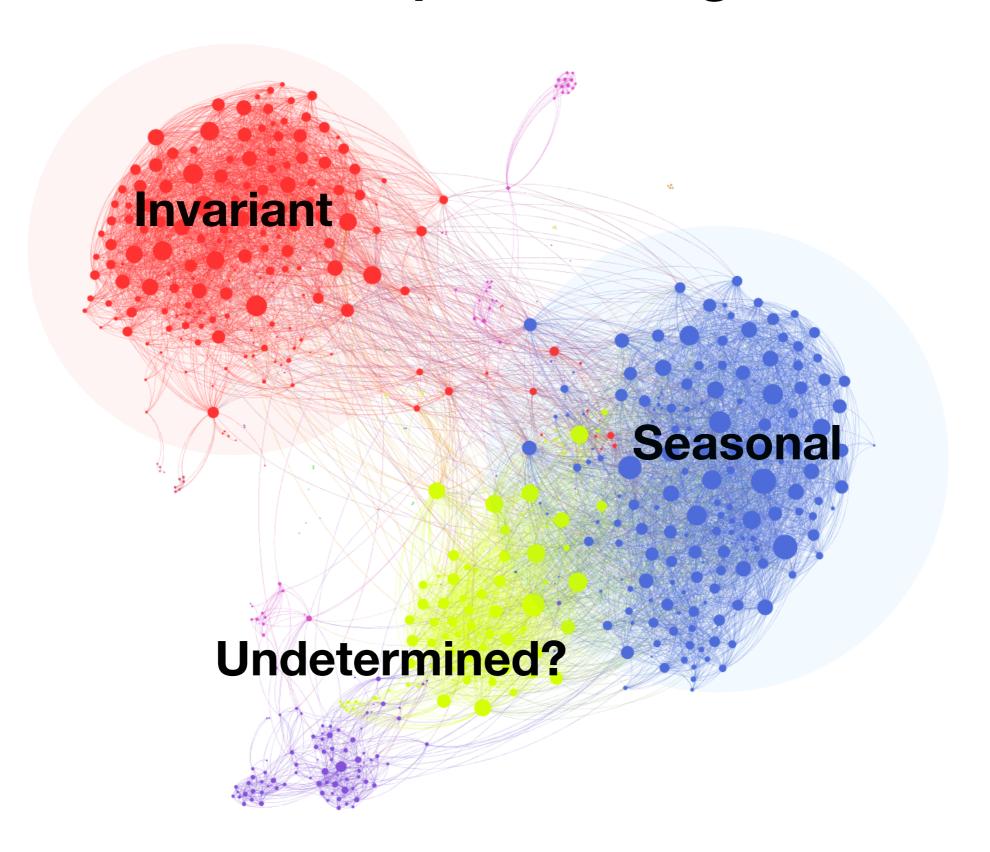
Demand Prediction - Machine Learning Team

Chris Chen
Tony Reina
Kyle Shannon
Suman Gunnala
Anil Luthra

Model Constraints

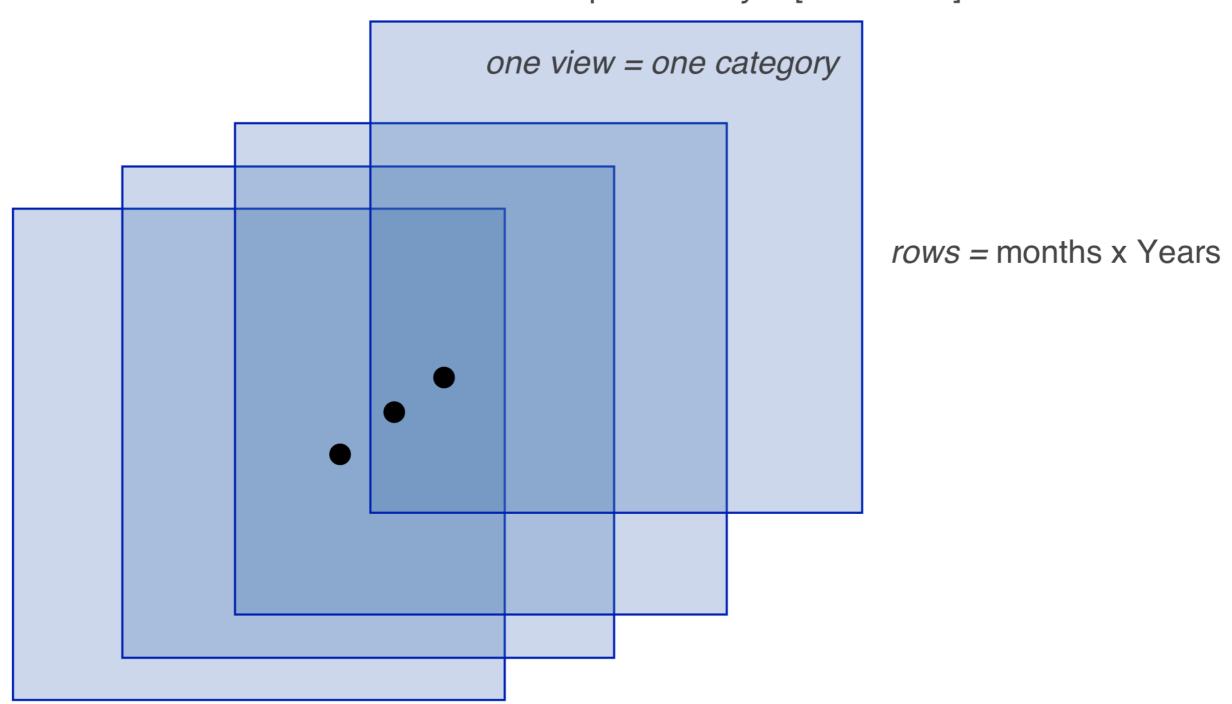


Cluster Top 75 Categories



How we would like Data?

cols = x Features + response var y + [MM/YYYY] DateTime



N Categories

Features

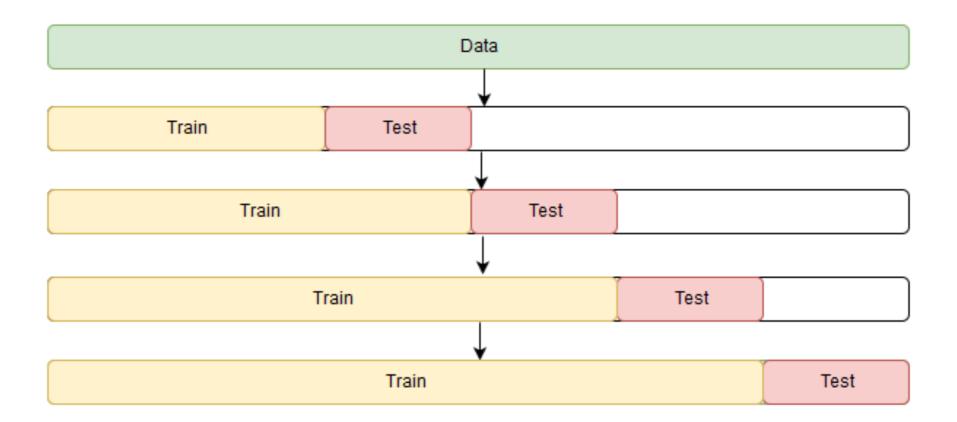
inventory_sold_ratio dollar_sold_ratio volume_moved product_rating_average product_rating_delta total sales contains_sold_out_product large_inventory_drop is pos sentiment is_neg_sentiment is_neutral_sentiment count_of_nodelDs is_in_campaign

Testing Training Regimens

The Problem. Latent Temporal Components.

The Solution. Walk-Forward Validation.

Does not assume independence or identical distributions.



Therefore...

sklearn.model_selection.TimeSeriesSplit

Collaborations

- EDA team
 - Cluster Analysis of Top 75 Categories
 - Correlation heat map matrix
- Schema & Query Team
 - Given accepted/answerable queries, ensure mediated schema will return from wrappers/source DBs in the correct format.

Thank You